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AQS Data Reports and Retrievals

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Table of Contents

AQS DATA REPORTS AND RETRIEVALS.....	1
1 INTRODUCTION.....	1-1
1.1 PURPOSE	1-1
1.2 ADDITIONAL RESOURCES	1-1
2 REPORT SELECTION INTERFACE (R31 FORM).....	2-1
2.1 OVERVIEW	2-1
2.2 WHAT IS RETURNED.....	2-1
2.3 TRIBAL MODE.....	2-2
2.4 CREATING A REPORT.....	2-3
2.4.1 Accessing R31.....	2-3
2.4.2 Criteria Set Tab	2-4
2.4.3 Monitor Selection and Area Selection Tabs.....	2-7
2.4.4 Sort Order Tab.....	2-12
2.4.5 Report Options Tab	2-12
2.4.6 Saving Criteria Sets.....	2-15
2.5 USING SAVED CRITERIA SETS	2-15
2.6 DELETING SAVED CRITERIA SETS	2-16
2.6.1 Query the Criteria Set into the Form.....	2-16
2.6.2 Delete the Criteria Set	2-16
2.7 GENERATE REPORT	2-16
2.7.1 Report Progress Dialog Box.....	2-17
2.8 RETRIEVING PREVIOUSLY EXECUTED REPORTS	2-17
2.8.1 Retrieve Report Button	2-18
2.8.2 Refresh Query Button	2-18
2.8.3 Cancel Report.....	2-19
2.8.4 Delete Report.....	2-19
3 REPORT DESCRIPTIONS.....	3-1
3.1 REPORT SELECTION CRITERIA COVER SHEET	3-1
3.1.1 Report Description	3-1
3.1.2 Report Outputs.....	3-1
3.1.3 Report Options.....	3-1
3.2 SITE / MONITOR REPORT: EXTRACT SITE / MONITOR DATA (AMP500).....	3-2
3.2.1 Report Description	3-2
3.2.2 Report Outputs.....	3-2
3.2.3 Report Options.....	3-3
3.3 SITE / MONITOR REPORT: MONITOR DESCRIPTION REPORT (AMP390)	3-4
3.3.1 Report Description	3-4
3.3.2 Report Outputs.....	3-4
3.3.3 Report Options.....	3-5
3.4 SITE / MONITOR REPORT: MONITOR NETWORK REPORT (AMP220D)	3-6
3.4.1 Report Description	3-6
3.4.2 Report Outputs.....	3-6
3.4.3 Report Options.....	3-7
3.5 SITE DESCRIPTION REPORT (AMP380)	3-7
3.5.1 Report Description	3-7
3.5.2 Report Outputs.....	3-7
3.5.3 Report Options.....	3-9
3.6 PRE-PRODUCTION REPORT: SCREENING GROUP INVENTORY REPORT (AMP025)	3-10
3.6.1 Report Description	3-10
3.6.2 Report Outputs.....	3-10

3.6.3	Report Options.....	3-10
3.7	SUMMARY REPORT: AIR QUALITY INDEX REPORT (AMP410).....	3-11
3.7.1	Report Description	3-11
3.7.2	Report Outputs.....	3-11
3.7.3	Report Options.....	3-12
3.8	SUMMARY REPORT: AIR QUALITY INDEX SUMMARY REPORT (AMP410S).....	3-14
3.8.1	Report Description	3-14
3.8.2	Report Outputs.....	3-15
3.8.3	Report Options.....	3-16
3.9	SUMMARY REPORT: DAILY SUMMARY REPORT (AMP435).....	3-17
3.9.1	Report Description	3-17
3.9.2	Report Outputs.....	3-17
3.9.3	Report Options.....	3-18
3.10	SUMMARY REPORT: FREQUENCY DISTRIBUTION REPORT (AMP230)	3-19
3.10.1	Report Description.....	3-19
3.10.2	Report Outputs.....	3-19
3.10.3	Report Options.....	3-20
3.11	SUMMARY REPORT: MAXIMUM VALUES REPORT (AMP440)	3-21
3.11.1	Report Description.....	3-21
3.11.2	Report Outputs.....	3-21
3.11.3	Report Options.....	3-21
3.12	SUMMARY REPORT: QUICK LOOK ALL PARAMETERS REPORT (AMP450NC)	3-23
3.12.1	Report Description.....	3-23
3.12.2	Report Outputs.....	3-23
3.12.3	Report Options.....	3-25
3.13	SUMMARY REPORT: QUICK LOOK REPORT (AMP450)	3-26
3.13.1	Report Description.....	3-26
3.13.2	Report Outputs.....	3-26
3.13.3	Report Options.....	3-34
3.14	SUMMARY REPORT: REDUCED FREQUENCY DISTRIBUTION REPORT (AMP260).....	3-35
3.14.1	Report Description.....	3-35
3.14.2	Report Outputs.....	3-35
3.14.3	Report Options.....	3-36
3.15	QUALITY ASSURANCE REPORT: ACCURACY REPORT (AMP247).....	3-37
3.15.1	Report Description.....	3-37
3.15.2	Report Outputs.....	3-37
3.15.3	Report Options.....	3-38
3.16	QUALITY ASSURANCE REPORT: CRITICAL REVIEW MONITOR DESCRIPTION CHANGES (G73)	3-39
3.16.1	Report Description.....	3-39
3.16.2	Report Outputs.....	3-39
3.16.3	Report Options.....	3-40
3.17	QUALITY ASSURANCE REPORT: CRITICAL REVIEW PRECISION & ACCURACY MONITOR SUMMARY (G75).....	3-41
3.17.1	Report Description.....	3-41
3.17.2	Report Outputs.....	3-41
3.17.3	Report Options.....	3-41
3.18	QUALITY ASSURANCE REPORT: CRITICAL REVIEW PRECISION AND ACCURACY REPORTING ORGANIZATION REPORT (G76).....	3-42
3.18.1	Report Description.....	3-42
3.18.2	Report Outputs.....	3-42
3.18.3	Report Options.....	3-43
3.19	QUALITY ASSURANCE REPORT: CRITICAL REVIEW PRECISION & ACCURACY SINGLE CHECKS (G71)	3-44
3.19.1	Report Description.....	3-44
3.19.2	Report Outputs.....	3-44
3.19.3	Report Options.....	3-44

3.20	QUALITY ASSURANCE REPORT: CRITICAL REVIEW RAW DATA (G74)	3-45
3.20.1	Report Description	3-45
3.20.2	Report Outputs	3-45
3.20.3	Report Options	3-46
3.21	QUALITY ASSURANCE REPORT: CRITICAL REVIEW SITE CHANGES (G72)	3-47
3.21.1	Report Description	3-47
3.21.2	Report Outputs	3-47
3.21.3	Report Options	3-47
3.22	QUALITY ASSURANCE REPORT: EXTRACT P/A DATA (AMP502)	3-48
3.22.1	Report Description	3-48
3.22.2	Report Outputs	3-48
3.22.3	Report Options	3-48
3.23	QUALITY ASSURANCE REPORT: PRECISION & ACCURACY RAW DATA REPORT (AMP250)	3-49
3.23.1	Report Description	3-49
3.23.2	Report Outputs	3-49
3.23.3	Report Options	3-50
3.24	QUALITY ASSURANCE REPORT: P&A REPORTING ORGANIZATION SUMMARY (AMP240)	3-51
3.24.1	Report Description	3-51
3.24.2	Report Outputs	3-51
3.24.3	Report Options	3-52
3.25	QUALITY ASSURANCE REPORT: PRECISION REPORT (AMP246)	3-53
3.25.1	Report Description	3-53
3.25.2	Report Outputs	3-53
3.25.3	Report Options	3-54
3.26	RAW DATA REPORT: DATA COMPLETENESS REPORT (AMP430)	3-55
3.26.1	Report Description	3-55
3.26.2	Report Outputs	3-55
3.26.3	Report Options	3-59
3.27	RAW DATA REPORT: EXTRACT RAW DATA (AMP501)	3-60
3.27.1	Report Description	3-60
3.27.2	Report Outputs	3-60
3.27.3	Report Options	3-60
3.28	RAW DATA REPORT: EXTRACT SAMPLE BLANKS DATA (AMP503)	3-61
3.28.1	Report Description	3-61
3.28.2	Report Outputs	3-61
3.28.3	Report Options	3-61
3.29	RAW DATA REPORT: RAW DATA REPORTS (AMP350, AMP350MX, AMP350NW, AMP350P)	3-62
3.29.1	Report Description	3-62
3.29.2	Report Outputs	3-63
3.29.3	Report Options	3-68
3.30	RAW DATA REPORT: RAW DATA WORKFILE PARAMETER BY TIME	3-70
3.30.1	Report Description	3-70
3.30.2	Report Outputs	3-70
3.30.3	Report Options	3-71
3.31	RAW DATA REPORT: VIOLATION DAY COUNT REPORT (AMP300)	3-72
3.31.1	Report Description	3-72
3.31.2	Report Outputs	3-73
3.31.3	Report Options	3-77

1 Introduction

1.1 Purpose

The AQS Application provides a series of pre-defined air quality reports. The intent of these reports is to provide a consistent, user-friendly method of accessing data from within the database. The outputs from these reports are designed to provide the user with an easy to interpret set of results which may be used as they are, or further analyzed in other applications. By providing this mechanism, the users have a “common language” of data that use a common format and common business rules in reviewing data from within the AQS database.

The standard reports can be grouped into the following categories of reports:

- ***Site and Monitor Description Reports:*** These reports provide detailed information about the configuration of the monitoring site and / or the monitors. These reports do not contain any collected sample data from the sites and monitors; just the configuration of the monitoring environment.
- ***Pre-Production Reports:*** If you have the ability to update data within the AQS application you will have access to these “Pre-Production” Reports. These reports provide information about data for the monitors that you own where the data has yet to reach “Production” status.
- ***Summary Reports:*** Due to the large volume of sample data collected by the system, the data is summarized at a variety of levels. These reports display the results of these summaries.
- ***Quality Assurance Reports:*** AQS collects auditing information performed against the monitoring networks to determine how well the monitors are performing. The results of these audits can be obtained through the precision and accuracy reports.
- ***Raw Data Reports:*** There are over 1,000,000,000 sample data points in the AQS database. These reports display the values as submitted by the user community.

1.2 Additional Resources

This document is intended to provide new users with the steps and procedures required to execute the standard reports from the AQS Application. . This document provides a complete description of the output options, report options, available selection criteria, and structure of the reports.

2 Report Selection Interface (R31 Form)

2.1 Overview

The standard report criteria interface screen (also referred to by its module name as the “***R31 form***”) is the mechanism by which all standard reports are created. The R31 form collects the following information from the user in order to create a report:

- What report to run
- The type of output desired
 - Formatted report
 - Text workfile
 - XML output
- Delivery Method
 - On-line (interactively)
 - Batch (background)
- What data to be included in the report
 - By geography
 - By time periods
 - By reporting organization
 - By screening groups
 - By land use
 - By monitor types
 - By parameter, parameter category, sampling duration, and/or sampling methodology
- Specify report sort order
- Select report options

Collectively, this information is called a “Criteria set”. Criteria sets can be named and saved to be used at a later time. This topic is covered in detail under ***Section 2.2.7: Saving Criteria Sets*** and ***Section 3: Using Saved Criteria Sets***.

It is important to realize that not all parts of R31 are available for all reports. For example, if you were creating a report for annual summary information, it would not make sense to base your time selections on a Year / Month / Day basis since the report only displays data on a yearly aggregation.

2.2 What is Returned

The type of information that is sent back to the user is very much dependant on what type of report has been requested. All reports have a cover page which shows the following information:

- What report was run
- What information was supplied to R31 to generate the output

This report is always generated in Portable Document Format (PDF). If a “REPORT” output option is specified and the report is also generated in PDF format, the cover sheet

and the report may be “merged” together into a single document. At this time, you must specify the “REPORT MERGE” option to “YES” in order for this feature to work. For more information, see section 2.2.6.1, “Merge PDF File Option” for more information.

If the output of the report is in a different file format from the cover page or if the “REPORT MERGE” option is set to “NO”, then a ZIP file is created containing the PDF cover page and the various requested report formats.

2.3 Tribal Mode

Within the application, sites may be identified in one of two ways:

Method 1. Unique combination of State Code – County Code – Site ID. The site may or may not be identifiable by “Method 2”.

Method 2. Unique combination of Tribal Code – Site ID. If a site can be identified by this method, it can also be identified by “Method 1”. This method is called the “Tribal format”

If users want to select and sort data by Tribal Code and display the information in the Tribal format, they must be in “Tribal mode” for the current session. You can determine if you are in Tribal mode by looking at the blue title bar above the R31 tabs. If the words “Tribal Mode” appear like this, for example,

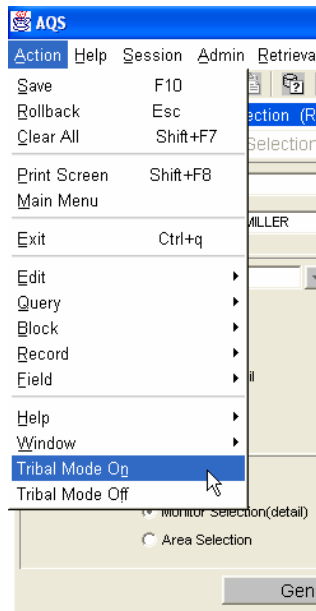


then you are in Tribal mode. If you are not in tribal mode, the title bar will look something like this:



There are 2 ways to set the session to be in Tribal mode:

1. From the “Action” Menu item - This will alter the current session to turn the Tribal mode on or off



2. Update User Profiles – To change the default way your session is set with respect to Tribal mode you may update your user profile record as appropriate. Go to Admin / Security menu items and check or uncheck the “Tribal User” check box on the “User Profile” tab as appropriate. If the user is defined as a tribal user on this screen, they will be put in Tribal mode whenever they sign on to the system. Please note that this mode also applies to other areas of the application, such as the Maintain form modules.

User Profile	Maintain Security	Security Reference Tables	Maintain Roles	User History
First Name JONATHAN Phone 919-541 7738 Zip Code 27711 County Code 063 User ID JNZ Unix Acct aqhqim00 Fax 9195417738	Initial K Street Address 1 EPA Building City Research Triangle Park User Type H Status Ind P E Mail miller.jonathan@epamail.epa.gov	Last MILLER Street Address 2 Room 335F State Code 37 Agency Code 1108 AQS Contact N EPA Region Code 04 Tribal User <input checked="" type="checkbox"/>		

2.4 Creating a Report

The Standard Reports Selection Form is the primary user interface in generating the pre-defined (or standard) reports within the AQS application. Different interface options appear for each report, depending on if the report supports the particular feature.

2.4.1 Accessing R31

The R31 form is accessed by selecting the “Standard Report Selection” option from the “Retrieval” menu (see **Figure 1** below).

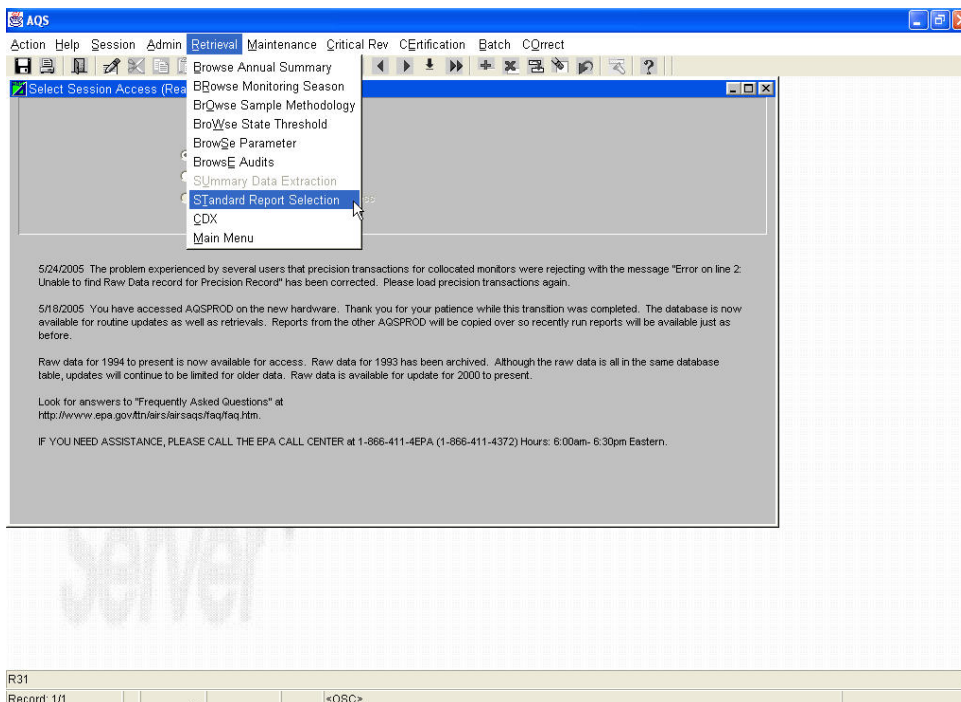


Figure 1 – Accessing Standard Reports

2.4.2 Criteria Set Tab

When first entering the R31 form, the “Criteria Set” Tab is active and the form is blank. This form will remain blank until either:

- a) The user selects a previously saved “Criteria Set” name from the drop-down list (shown in section “2” in **Figure 2** below). These previously saved criteria sets may be either “Private” criteria sets created by the user or “Public” criteria sets created by another user. Use of this option is covered in Section 3 (“Using Saved Criteria Sets”).
- b) The reports are listed in alphabetical order based on the name of the report. Each report has an associated report code. The user selects a “Report Code” from the drop-down list (shown in section “3” in **Figure 2** below). This indicates that this is a new report being requested. Once the report code is selected, the R31 form is now able to determine the following information:
 - a. What report outputs are available
 - b. What fields may be selected upon
 - c. If any sorting of the selected records is allowed
 - d. What report options are available

Figure 2 – Criteria Set Tab

After the desired report is specified, the pertinent parts of the form are populated and the appropriate tabs are activated. The following items are filled out on the “Criteria Set” tab:

- The report name (Section “3” in **Figure 2**)
- The “Run Online” output option is selected by default (Section “3” in **Figure 2**). There are three options for how the reports are returned to the user
 - **Run Online** – This option indicates that the results of the report will be returned directly to the screen.
 - **Send via Email** – The results of the report will be sent to the user’s email address as defined in their user profile.
 - **Send to CDX** – The results of the report are sent to your Central Data Exchange (CDX) account. You are responsible for signing on to CDX and downloading the resulting file yourself.
- Depending on what elements are selected, additional windows appear in Section “3” of **Figure 2**. For example, if “REPORT” is a valid output type and it is checked, then **Figure 2** Section 3 will look like this:

Run Online
Send via Email
Send to CDX

Report Outputs
☒ REPORT
☐ WORKFILE
☐
☐

Print Format: PDF

Note the new “Print Format” field. By default it will have Adobe Portable Document Format (PDF) files as the default. PDF is the file format for which the standard formatted reports were designed and is usually the best option. However, the following formats are also available for any formatted report:

- Postscript (PS)
- Hypertext Markup Language (HTML)
- Rich Text Format (RTF)
- HP Printer Language (HPL)
- Plain Text (TXT)

If either the “Send via Email” or “Send to CDX” options are checked, a text field appears for you to optionally specify the name of the file it outputs.

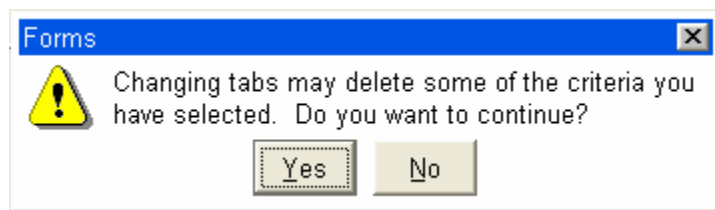
Run Online
Send via Email
Send to CDX

Report Outputs
☒ REPORT
☐ WORKFILE
☐
☐

Print Format: PDF

File Name: test_filename

- The appropriate “Report Outputs” available for the report are displayed (Section “3” in **Figure 2**). At least one output option will be checked by default.
- The “Monitor Selection (detail)” selection mode will be selected by default (Section “4” in **Figure 2**). You may specify your selection criteria by geographic information related to monitor attributes (State – County – Site ID – Parameter Code – POC) or by more general geographic entities (Tribal Areas, State, County, City, EPA Region, etc). You may switch selection modes before executing a query by checking the appropriate radio button in Section “4” in **Figure 2**, but the information that you have placed on the “Monitor Selection” tab will not be carried over. You will receive a warning to this effect.



Click on “Yes” to continue to use the other selection mode. Click “No” to stay in your current mode and retain your current information.

- The other appropriate tabs will become active (Section “1” in **Figure 2**)

2.4.3 Monitor Selection and Area Selection Tabs

2.4.3.1 Basic Function

You specify your selection criteria either by “Monitor Selection” or by “Area Selection”. Which tab is active is dependant on which radio button is selected on the “Criteria Set” tab (Section “4” in **Figure 2**). The basic functions of these tabs are the same; the only difference is what fields are available in which to specify your selection criteria. The general idea of these tabs is to limit or filter the records that are selected from the database. This is done by specifying geographic, temporal, and / or pollutant information to select only the sites or areas desired. Which fields are available is dependant on the selected report. If a field is not appropriate for the report, it will not appear on the screen.

2.4.3.2 How the Selections Work

As you can see in **Figure 3**, the Monitor Selection tab is broken in to four areas:

- **Site – Monitor Criteria** – Allows selection by the components of the monitor id. Specifically these are the Tribal Code, State Code, County Code, Site ID, Parameter Code, and Parameter Occurrence Code (POC). In addition, you may specify method code, sample duration code, and the effective date range.
- **Global Report Criteria** – Allows selection by a category of parameters (“CRITERIA” category selects all of the criteria pollutant parameters), a single parameter, sample duration, and method code. **NOTE:** If you have specified any of these types of elements in the “Site – Monitor Criteria” section, you will not be allowed to enter them here.
- **Global Data Range** – Allows selection by the appropriate date range specified for the given report. **NOTE:** If you have specified any of the date elements in the “Site – Monitor Criteria” section, you will not be allowed to enter them here.
- **Global Screening Group** – Allows selection by owners of the monitors.

2.4.3.3 Differences Between the Selection Tabs

Examine **Figure 5** below. This is the “Area Selection” tab. Conceptually, it works the same way as the Monitor Selection tab shown in **Figure 3** above. The difference between them is what elements you may select. The following chart shows all the available fields and on which tabs they are located. Not all these elements are available with all reports.

Figure 5 - Area Selection Tab

Field Name	Monitor Selection	Area Selection	Field Name	Monitor Selection	Area Selection
Tribal Code	✓	✓	Reporting Organization		✓
State Code	✓	✓	Land Use		✓
County Code	✓	✓	Monitor Type		✓
Site Id	✓	✓	Global Pollutant Type	✓	✓
Monitor Single Parameter	✓		Global Single Parameter	✓	✓
POC	✓		Global Method	✓	✓
Monitor Method	✓		Global Duration	✓	✓
Monitor Duration	✓		Global Date Range	✓	✓

Monitor Date Range	✓			AQCR Code		✓
City Code		✓		MSA Code		✓
Urban Area Code		✓		EPA Region		✓
CMSA Code		✓		Screening Group	✓	✓

One of the “not so obvious” differences is that the Monitor Selection tab includes Parameter Code, Method Code, Duration Code, and date ranges on each row in the selection criteria. The Area Selection tab does not. The implication is that the Monitor Selection tab allows you to customize what is selected for each monitor whereas this information must be applied to all the geographic records selected from the Area Selection tab. For example, if you wanted 2000 data from Ohio and 2004 data from Virginia, you could only construct this type of a query in the Monitor Selection tab because of the “AND” and “OR” nature of combining the specified criteria. Here is what this query would look like using the “Monitor Selection” tab:

Site-Monitor Criteria													
Tribal Code	State Code	County Code	Site Id	Parameter Code	POC	Method Code	Duration Code	Start Date			End Date		
								YYYY	MM	DD	YYYY	MM	DD
	39							2000	01	01	2000	12	31
	51							2004	12	31	2004	12	31

Note that the date range only applies to the other information in the same line. So this would read “Select Sites where the State Code is for Ohio (“39”) and the date range is from 2000-01-01 through 2000-12-31 OR the state code is for Virginia (“51”) and the date range is from 2004-01-01 through 2004-12-31”.

A similar query in the “Area Selection” Mode would look like this:

The “Geographical Criteria” section of the form it would look like this:

Geographical Criteria									
Tribal Code	State Code	County Code	Site Id	City Code	AQCR Code	UAR Code	MSA Code	CMSA Code	EPA Region Code
	39								
	51								

The “Date Criteria” section would look like this:

Date Criteria					
Start Date			End Date		
YYYY	MM	DD	YYYY	MM	DD
2000	01	01	2000	12	31
2004	01	01	2004	12	31

The combination of these two things would read “Select Sites where the State Code is for Ohio (“39”) OR the state code is for Virginia (“51”) AND the date range is from 2000-01-01 through 2000-12-31 OR the date range is from 2004-01-01 through 2004-12-31.” The date range would apply to both geographical entities. There is a similar logic with the single parameter, duration, and sampling methods columns as well.

2.4.4 Sort Order Tab

Every report has a defined sort order. Many of the reports allow you to change the sort order in some manner. However, given the structure of some reports, what may be sorted is limited. The interface to alter the sort order can be found on the “Sort Order” tab. If this tab is not active, then sorting is not allowed for the given report.

Order	Column Name	Allowed Range	
		Lo	Hi
1	PARAMETER_CODE	1	1
2	TRIBAL_CODE	2	3
3	STATE_CODE	2	3
4	COUNTY_CODE	4	8
5	SITE_ID	4	8
6	POC	4	8

The tab displays the sortable fields, the order in which the sorting will take place, and the range of order the field may appear. In this particular example, the report must be sorted by Parameter Code first (note the Allowed Range is 1). Next you may sort by either:

- Tribal code then State code
- State code then Tribal code

Again, note the allowed order range for these columns. To change the order, highlight the column that you would like to change its order, and then click the “Move highlighted column up” arrow or the “Move highlighted column down” arrow. You may not add or remove columns to the list to be sorted. You may only change the sort order and only within the range where the “Order” number is between the “Lo” and “Hi” values of the “Allowed Range”.

2.4.5 Report Options Tab

With all the reports, there are several options that may be available that will effect what data is returned to the user. The report options may be placed into one of three categories:

- Single value report options (See **Figure 6**) – For a given option category, the user may select one of a known list of options. All available options appear in the drop-down listing for the option.
- Alternate standards report option (See **Figure 6**) – User may specify the values at which a given value will be marked as exceeding a given limit. In order to use this option, the data must be returned in Standard Units. These alternate limits will only be applied where the data being retrieved matches a given parameter and duration. The user must specify a parameter, duration, and any of the following:
 - Primary Value
 - Secondary Value

- Primary and Secondary Value
- Multiple value report options (See **Figure 7**) – For a given option category, the user may select none, one, or multiple choices from the known list of options. Selections are made by checking the box to the right of the option. A checked box indicates that the option will be applied to the report. The user may also utilize the “Check All” and “Uncheck All” buttons to expedite selecting multiple columns.

Standard Report Criteria Selection (Read Only) AMP350 Tribal Mode

Criteria Set | Monitor Selection | Area Selection | Sort Order | **Report Options** | Retrieve Reports

INCLUDE NULLS ☒ YES

DAILY STATISTICS ☒ MAXIMUM

UNITS ☒ STANDARD

RAW DATA EVENTS ☒ INCLUDE EVENTS

MERGE PDF FILES ☒ NO

Single Value Report Options

ALTERNATE STANDARDS

Parameter	Duration	Primary Std	Secondary Std
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Alternate Standards Report Option

Generate Report

Figure 6 - Single Value & Alternate Standards Report Options

Figure 7 - Multiple Value Report Options

2.4.5.1 Merge PDF Files Option

A common report option is one labeled “MERGE PDF FILES”. It lists either “YES” or “NO” as the available option values. If this option equals “YES”, the report program will merge the results of the cover sheet with the output of the formatted PDF report. This option will only be implemented if **ALL** of the following conditions are true:

1. The “MERGE PDF FILES” option = “YES”
2. The user has selected a “REPORT” type of output from the “Criteria Set” tab
3. The format of the “REPORT” output on the “Criteria Set” tab is set to “PDF”

The option screen does not validate that the combination of these elements before executing.

2.4.5.2 Exceptional Event Processing

Several reports have an option of how to handle exceptional event processing. This option will primarily affect summary types of reports. When data is submitted to AQS, the submitting agency may flag the data as being effected by either natural events or man-made exceptional events that have influenced the level of the sample. These flags are eventually concurred or not concurred by the local EPA authority as to whether this is an approvable event.

When AQS summarizes the data, it is summarized multiple times if the dataset contains any of these natural or exceptional events. The following summaries are computed:


- Include all data whether or not they contain events
- Exclude all events

- Exclude just the exceptional events
- Exclude just the natural events
- Exclude any events with EPA Regional concurrence
- Exclude just the exceptional events with EPA Regional concurrence
- Exclude just the natural events with EPA Regional concurrence

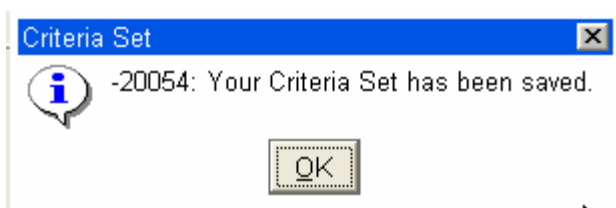
2.4.6 Saving Criteria Sets

Once you have successfully created a criteria set, you may save it to be executed again at a later time. To save a criteria set, first go to the “Criteria Set” tab (See section 2 of **Figure 2**). Enter the following information:

- Criteria Set Name: A unique name to identify the criteria set
- Criteria Set Description: A brief description of the criteria set
- Owner: This will be your name and filled out automatically
- Type: You can either define the criteria set as “Private” (default) or “Public”
 - *Private*: This option means that only you may access and update this criteria set
 - *Public*: This option allows any other user to access and update the criteria set

Once you have filled out the appropriate information, click on the “Save” icon in the upper left-hand corner of the form. 

If you have successfully completed these steps, you will receive the following dialog box:



2.5 Using Saved Criteria Sets

After entering the Standard Reports form (See section 2.2.2 for information on how to enter the R31 form), you may recall any previously saved criteria sets. You will be able to see any criteria set that you have saved as well as any other criteria set saved by others labeled “Public”.

To see all the criteria sets you have in your private account, select “Private” from the “Type” field and click on the “Criteria Set” drop-down list. To see the criteria sets available in the “Public” area, choose “Public” from the “Type” field and click on the “Criteria Set” drop-down list.

The report that the criteria set was originally run with is returned. Any selections made on the Monitor / Area Selection tab, Sort Orders, and Report Options are also returned. However, the elements under the outputs are always reset to the default values for the

report (see section “3” of **Figure 2**). Once the information has been loaded into the form, the report may be immediately generated or you may make any changes.

2.6 Deleting Saved Criteria Sets

You have the ability to delete previously saved criteria sets that you no longer need or want in your list of saved criteria set. Since these saved criteria sets are saved within the database, they are treated like any other record in the database. The method of deleting them is:


1. Query the Criteria Set into the form.
2. Delete the record using either the form icon or the menu selections.

2.6.1 Query the Criteria Set into the Form

To see all the criteria sets you have in your private account, select “Private” from the “Type” field and click on the “Criteria Set” drop-down list. To see the criteria sets available in the “Public” area, choose “Public” from the “Type” field and click on the “Criteria Set” drop-down list. You may delete only “Public” criteria sets that you have saved.

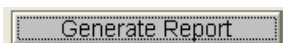
2.6.2 Delete the Criteria Set

Once the criteria set have been queried, you may delete the record by any of the following methods:

1. Click on the “Remove Record” icon 
2. Select “Action” → “Record” → “Remove” from the menus.
3. Press the “Shift” key and the “F6” key simultaneously.

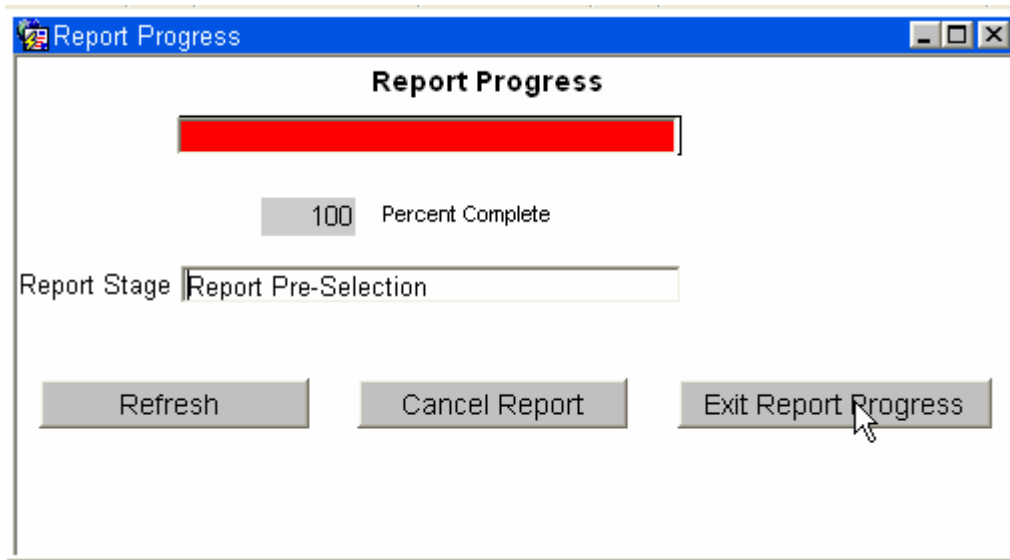
Please note that once the record is deleted, the action is automatically committed and cannot be un-done.

2.7 Generate Report



At the bottom of each tab of the R31 form is the “Generate Report” button. Once this button is pressed, the report takes the information from the tabs of the R31 form and uses it to generate the report. If the “Send via Email” or “Send to CDX” options were selected from the “Criteria Set” tab, the report runs in the background. When complete, the report will be delivered by the selected mechanism. If the “Run Online” option was selected from the “Criteria Set” tab, then a progress dialog box appears to let the user know the progress of the report. When complete, the progress dialog box will disappear and the report output will be delivered to the user on the screen. The “Generate Report” may be pressed at any point during the selection criteria process. Prior to submitting the report, the R31 form will check to ensure that all required information has been provided. If it has not, the user will be shown the part of the form in error and provided with a message to indicate what additional information is needed.

2.7.1 Report Progress Dialog Box



The Report Progress dialog box provides the user with the following information:

- The current stage of the report. When a report is being generated, it will undergo a series of different steps. While not all reports take the same steps in generating a report, the final stage of the report generation process is the “Generating Output” stage.
- The percent completeness of the particular stage. This provides an estimate of the amount of progress made from the particular stage. It is not an overall percentage to generate the entire report. This percent completeness applies only to the current stage.
- The information on the dialog box automatically refreshes every 15 seconds. If you would like the information to refresh before the next 15 second interval, press the “Refresh” button and the information will be updated.
- The “Cancel Report” button will tell the report generator to cancel the currently running report. The cancellation is not immediate. A message must be sent to the report server, and the dialog will wait until it receives a response that the report has been cancelled.
- The “Exit Report Progress” button will not cancel the report, but it will take it out of the “Run Online” mode. In order to see the results of the report, the user will have to manually check the progress of the report through the “Retrieve Reports” tab (See section 4.2).

2.8 Retrieving Previously Executed Reports

You may also obtain the results of a previously run report by clicking on the “Retrieve Reports” tab from the R31 form (See **Figure 8** below).

User Id	Report Code	Request Type	Request Date	Report Stage	% Complete
JNZ	AMP450	REPORT	05/27/2005 01:28 P	Completed	100
JNZ	AMP350	REPORT	05/27/2005 12:43 P	Cancelled	100
JNZ	AMP350	REPORT	05/27/2005 12:42 P		
JNZ	AMP230	REPORT	05/25/2005 02:09 P	Completed	100
JNZ	AMP450NC	REPORT	05/24/2005 03:12 P	Completed	100
JNZ	AMP450NC	REPORT	05/24/2005 03:08 P	Completed	100
JNZ	AMP500	REPORT	05/20/2005 08:54 A	Completed	100
JNZ	AMP350	BATCH	05/13/2005 09:47 A	Cancelled	100
JNZ	AMP410	REPORT	05/13/2005 09:45 A	Cancelled	100

Retrieve Report Refresh Query Cancel Report Delete Report

Figure 8 - Retrieve Reports Tab

The “Retrieve Reports” tab shows the status of any report that you have run in the last 15 calendar days. It shows the following information:

- Who ran the report (will always be your user ID)
- What report was run
- How they requested the report (Online or Batch)
- The date the report request was made
- The stage of the report
- Percent completeness of the stage

2.8.1 Retrieve Report Button

The “Retrieve Report” button on the “Retrieve Reports” tab (see **Figure 8**) will obtain the results of a completed report for the row that is highlighted on the form. The button will only work successfully if the Stage is “Completed” and the “% Complete” column = 100. Keep in mind that this function returns the results of the report at the time it was originally run. It does not re-execute the query. So any updates to the data that have been made from the time the report was originally run will not be reflected in the retrieved report.

2.8.2 Refresh Query Button

The “Refresh Query” button updates the “Stage” and “% Complete” columns for the reports that you have supplied. The results are refreshed each time you reopen the

“Retrieve Reports” tab, but if you want to see the status as it stands at this moment, press this button

2.8.3 Cancel Report

The “Cancel Report” is used when you would like to cancel a report that you are running in the background. It will not delete the report from the list of reports. It only changes the status of the highlighted row to “Cancelled”.

2.8.4 Delete Report

The “Delete Report” is used when you would like to remove a report from the list of reports run in the last 15 days. It will not cancel the report. It only removes the highlighted row from the list of reports for the user.

3 Report Descriptions

3.1 Report Selection Criteria Cover Sheet

3.1.1 Report Description

The Report Selection Criteria is a report that is generated with each request for data from the R31 interface. The report displays what selection criteria were used for a given report, report options selected, the selected sort order, the date the request was made, and the report to which it belongs. This report may be generated separately or “merged” with another Adobe Acrobat portable document format (PDF) output. This report is always generated in PDF format.

3.1.2 Report Outputs

3.1.2.1 Formatted Reports

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MAXIMUM VALUES REPORT

User ID: JNZ

Report Request ID: 254531 Report Code: AMP440 Jul. 14, 2005

GEOGRAPHIC SELECTIONS																
Tribe	State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA Region	Zip Code	Method	Duration	Begin Date	End Date
37	035														2004	2004

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration
CRITERIA			

SELECTED OPTIONS	
Option Type	Option Value
EVENTS PROCESSING	REPORT ALL EVENT RECORDS
MERGE PDF FILES	NO

SORT ORDER	
Order	Column
1	PARAMETER_CODE
2	STATE_CODE
3	DURATION_CODE
4	DATES
5	COUNTY_CODE
6	SITE_ID
7	POC
8	ECT_ID

3.1.2.2 Workfile Format

Not applicable for this report

3.1.2.3 XML Format

Not applicable for this report

3.1.3 Report Options

There are no options defined for this report.

3.2 Site / Monitor Report: Extract Site / Monitor Data (AMP500)

3.2.1 Report Description

The Extract Site / Monitor Data converts production site and monitor description data into the AQS pipe-delimited data input format and / or defined XML input schema. This program will generate “AA”, “AB”, “AC”, “MA”, “MB”, “MC”, “MD”, “ME”, “MF”, “MG”, “MH”, “MI”, “MJ”, and / or “MK” transactions. There is no formatted report associated with AMP500.

3.2.2 Report Outputs

3.2.2.1 Formatted Report

Not applicable for this report.

3.2.2.2 Workfile Format

The workfile records are consistent with the data input format for site and monitor description data. Please refer to the Batch Input Transaction layouts for further discussion of these formats.

3.2.2.3 XML Format

The XML Format of this report is consistent with the Air Quality Submission schema. The schema definition can be found at <http://www.exchangenetwork.net/exchanges/air/aqs.htm>. The selection of the “Action Indicator” in the report options (see the following section on choices of options for the report) will determine whether the “Insert”, “Update”, or “Delete” schema will be used.

3.2.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	No effect for this report
ACTION INDICATOR	INSERT	You may set what “Action Indicator” is applied to the extracted transactions. <ul style="list-style-type: none">• Insert• Update• Delete
SITE MONITOR TRANSACTIONS	All available transaction types	You may select the type of site and monitor transactions generated: <ul style="list-style-type: none">• SITE BASIC• SITE TANGENT ROADS• OPEN PATHS• MONITOR BASIC• MONITOR SAMPLE PERIODS• MONITOR TYPES• MONITOR AGENCY ROLES• MONITOR OBJECTIVES• MONITOR SAMPLE SCHEDULES• MONITOR STREET INFORMATION• PROBE OBSTRUCTIONS• MONITOR REGULATORY COMPLIANCES• MONITOR COLLOCATION PERIODS• MONITOR PROTOCOLS

3.3 Site / Monitor Report: Monitor Description Report (AMP390)

3.3.1 Report Description

The Monitor Description Report (AMP390) lists descriptive information on the location and configuration of monitoring sites and monitors with AQS. This descriptive information includes geographic descriptions, probe configuration descriptions, and location of other items that may have an impact on the data collected by the site (nearby streets and obstructions). The report produces 1 page per monitor selected.

3.3.2 Report Outputs

3.3.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MONITOR DESCRIPTION REPORT

North Carolina

Jul. 14, 2005

Monitor ID: 37-036-0006-99101-1
Date of Latest Collection: 20060929
Owner: NORTH CAROLINA PNE
Street Address: 320 3RD ST DR SW
Site Name:
County: Catawba
Project Type: POPULATION-ORIENTED SURVEILLANCE
Near. Scale: NEIGHBORHOOD
Probe Location: GROUND LEVEL SUPPORT
Probe Height (m): 2.2
Sample Residence Time:

Parameter Measured: 99101
Last Updated: 20060623
City: Hickory
MSA: Hickory-Morganton-Lenoir, NC
UAR: HICKORY, NC
Dominant Source: AREA
Location Setting: URBAN AND CENTER CITY
Horizontal Distance (m): 0.1
Vertical Distance (m): 2.1
Unrestricted Air Flow?: Y

DATES OF OPERATION		AGENCY ROLES			
Begin Date	End Date	Agency Role	Agency Name	Begin Date	End Date
20040629		COLLECTING	North Carolina Dept Of Environment And Natural Resources	20040629	
		ANALYZING	North Carolina Dept Of Environment And Natural Resources	20040629	
		REPORTING	North Carolina Dept Of Environment And Natural Resources	20040629	

MONITOR TYPE INFORMATION				
Monitor Type	Begin Date	End Date	Action Type	Action Reason
SPECIAL PURPOSE	20040629			

REGULATION INFORMATION				
Regulation	Met?	Date Met		
Quality Assurance Criteria Met	Y	20040629		
Reference Method Used	Y	20040629		
Siting Criteria Met	Y	20040629		
Short Term Satisfied	Y	20040629		

TARGET ROAD INFORMATION				
Street Name	Type Road	Traffic Count	Traffic Yr	Dist. to Road (m)
320 3RD ST DR SW	LOCAL ST OR HWY			51
3RD ST SW	LOCAL ST OR HWY			94

MONITORING OBJECTIVES			
Monitor Objective Type	UAR Name	MSA Name	CMAA Name
POPULATION EXPOSURE		Hickory-Morganton-Lenoir, NC	

3.3.2.2 Workfile Format

Not applicable for this report.

3.3.2.3 XML Format

Not applicable for this report.

3.3.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.4 Site / Monitor Report: Monitor Network Report (AMP220D)

3.4.1 Report Description

The Monitor Network Report (AMP220D) lists descriptive information on the location and configuration of monitoring sites and monitors with AQS. This report focuses on the elements required to meet the Environmental Protection Agency's criteria to properly locate an ambient air quality monitoring site. This descriptive information includes a list of networks to which the monitor currently belongs, probe configuration descriptions, and location of other items that may have an impact on the data collected by the site (nearby streets and obstructions). The report has a detail and summary section. A sample of each output is provided.

3.4.2 Report Outputs

3.4.2.1 Formatted Report

3.4.2.1.1 Monitor Detail Section

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MONITOR NETWORK REPORT

Jul. 14, 2005

Site ID: 37-035-0004
State: North Carolina
Region: ATLANTA

Street Address: 1650 1ST STREET
Urbanized Area: HICKORY, NC

Poll: 81102 PM10 Total 0-10um STP
Probe Ht. (m):
Meas Scale: NEIGHBORHOOD
DOC: 1

Monitoring Objective	Sampling Begin Date	Req Samp Freq	Regulation Compliances		Road Description			Monitor Types		
			Regulation	Crit. Mat?	Dist (n)	Street Num	Traffic Cnt	Monitor Type	Action Taken	Action Reason
GENERAL/BACKGROUND	19920927	6	ST	N				SLAMS		

Poll: 88101 PM2.5 - Local Conditions
Probe Ht. (m): 2.0
Meas Scale: NEIGHBORHOOD
DOC: 1

Monitoring Objective	Sampling Begin Date	Req Samp Freq	Regulation Compliances		Road Description			Monitor Types		
			Regulation	Crit. Mat?	Dist (n)	Street Num	Traffic Cnt	Monitor Type	Action Taken	Action Reason
POPULATION EXPOSURE	19990101	3	QC	Y	19990101			SLAMS		
			PM	Y	19990101					
			SC	Y	19990101					

Poll: 88101 PM2.5 - Local Conditions
Probe Ht. (m): 4.5
Meas Scale: URBAN SCALE
DOC: 3

Monitoring Objective	Sampling Begin Date	Req Samp Freq	Regulation Compliances		Road Description			Monitor Types		
			Regulation	Crit. Mat?	Dist (n)	Street Num	Traffic Cnt	Monitor Type	Action Taken	Action Reason
POPULATION EXPOSURE	20031001	1						SLAMS		

Poll: 88101 PM2.5 - Local Conditions
Probe Ht. (m):
Meas Scale:
DOC: 5

Monitoring Objective	Sampling Begin Date	Req Samp Freq	Regulation Compliances		Road Description			Monitor Types		
			Regulation	Crit. Mat?	Dist (n)	Street Num	Traffic Cnt	Monitor Type	Action Taken	Action Reason
POPULATION EXPOSURE	20020101	6						SLAMS SPECIATION		

3.4.2.1.2 Monitor Network Summary Section

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM MONITOR NETWORK REPORT									
MONITOR NETWORK SUMMARY									
North Carolina									
Jul. 14, 2005									
Monitor Type: SLAMS									
Urbanized Area: HICKORY, NC									
Region Name: ATLANTA									
Parameter									
81102 PM10 Total 0-10um STP					Action Type		Count		
88101 PM2.5 - Local Conditions							1		
							2		

3.4.2.2 Workfile Format

Not applicable for this report.

3.4.2.3 XML Format

Not applicable for this report.

3.4.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.5 Site Description Report (AMP380)

3.5.1 Report Description

The Site Description Report lists descriptive information pertaining to an ambient air quality monitoring site. This type of information may include geographical information, user-defined descriptions, coordinate information, site operational information, tangent road information, and counts pertaining to the monitors located at the site.

3.5.2 Report Outputs

3.5.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
SITE DESCRIPTION REPORT

Jul. 15, 2005

Site ID: 37-183-0003 Site Name: Local ID:
Street Address: FIRE STATION #9 SIX FORKS RD NORTH HILLS City: Raleigh
State: North Carolina Zip Code: County: Wake
Location Description: MONITORING POINT Location Setting: SUBURBAN
Coll. Method: GPS CARRIER PHASE STATIC RELATIVE POSITION Land Use: COMMERCIAL
Date Established: 19720101 Date Terminated: Last Updated: 20020910
Regional Eval. Date: HQ Eval. Date: 19840626 AQCR: EASTERN PIEDMONT
MSA: Raleigh-Durham-Chapel Hill, NC CMSA: Direct Met Site: Met. Site ID:
Type Met Site: Dist to Met. Site(m): Local Region:
Urban Area: RALEIGH, NC EPA Region: ATLANTA
City Population: 120699 Dir. to CBD: NE Dist. to City(km):
Census Block: Block Group: Census Tract:
Congressional District: Class 1 Area:
Site Latitude: +35.841111 Site Longitude: - 78.643056 Time Zone: EASTERN
UTM Zone: 17 UTM Northing: 3968690 UTM Easting: 712875
Accuracy: 3.04 Datum: NAD83 Scale: 24000 Point/Line/Area: POINT
Vertical Measure(m): 125.0 Vert Accuracy: 10
Vert Datum: UNKNOWN Vert Method: UNKNOWN

SITE COMMENTS

FILTERS SENT TO RFA ON 12 DAY SCHEDULE CAROLINA POWER ELECTRIC METER NO. NO METER (FIRE STATION HOOK UP)

ACTIVE MONITOR TYPES		AGENCY ROLES			
Monitor Type	# of Monitors	Role	Agency Desc	Begin Date	End Date
OTHER	38	SUPPORTING	North Carolina Dept Of Environment And Natural Resources	19720101	20001231
SLAMS	1				

TANGENT ROADS					
Road Number	Road Name	Traffic Count	Traffic Year	Traffic Volume Source	Compass Sector
1	UNKNOWN		49700		MAJ ST OR HY UNK

3.5.2.2 Workfile Format

Not applicable for this report.

3.5.2.3 XML Format

Not applicable for this report.

3.5.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.6 Pre-Production Report: Screening Group Inventory Report (AMP025)

3.6.1 Report Description

The Screening Group Inventory Report provides information within the “correct” tables for a screening group to which the user belongs. The formatted report provides summary counts of the number of records by action type within the specified screening group. The workfile version of the report contains the records within the “correct” tables in the standard AQS input transaction format. The user must be signed on to a screening group for the current session in order to see this report appear on the list of available reports.

3.6.2 Report Outputs

3.6.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY						
AIR QUALITY SYSTEM						
SCREENING GROUP INVENTORY						
Jul. 15, 2005						
SCREENING GROUP: INFORMATION MANAGEMENT GROUP						
Transaction Type	# Inserts	# Updates	# Deletes	# Unknown	# Excluded	Total
MONITOR TYPES	0	2	0	0	0	2
ACCURACY DATA	13	0	0	0	0	13
PRECISION DATA	0	0	0	0	37	37
TOTALS:	13	2	0	0	37	52

3.6.2.2 Workfile Format

The workfile records are consistent with the data input format for the precision and accuracy data. Please refer to the Batch Input Transaction layouts for further discussion of these formats.

3.6.2.3 XML Format

Not applicable for this report.

3.6.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
WORKFILE TRANSACTION TYPES	All available formats selected	The user may select or deselect any of the transactions which will appear in the results of the report.

3.7 Summary Report: Air Quality Index Report (AMP410)

3.7.1 Report Description

The Air Quality Index (AQI) Report produces a list of AQI values for a selected group of monitors for the selected time range. The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after breathing polluted air. EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter), carbon monoxide, sulfur dioxide, and nitrogen dioxide.

Although the official AQI values are generated on a Metropolitan Statistical Area (MSA) basis, the AMP410 allows users to specify other geographic aggregation options. For each of the aggregated geographic areas, the report will show the date the AQI was collected, the maximum AQI within the area for the day, the controlling pollutant, and other AQI values collected for other pollutants within the area for the same day.

3.7.2 Report Outputs

3.7.2.1 Formatted Report Output

```
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
AIR QUALITY INDEX REPORT

Jun. 30, 2005

MSA: Hickory-Morganton-Lenoir, NC

***** CRITICAL POLLUTANT *****
***** OTHER POLLUTANTS *****
***** AQI *****
***** SUBINDEX *****
***** SITE ID *****
***** TOTAL DUR *****
***** SITES *****
***** CODE *****

DATE    DESCRIPTOR    POLLUTANT    AQI    VALUE    SITE ID    TOTAL    DUR    POLLUTANT    AQI    SUBINDEX    SITE ID    TOTAL    DUR    SITES    CODE
20040101    GOOD    PM2.5 - Local Con    50    37-035-0004    1    X
20040102    MODERATE    PM2.5 - Local Con    66    37-035-0004    1    X
20040103    MODERATE    PM2.5 - Local Con    68    37-035-0004    1    X
20040104    GOOD    PM2.5 - Local Con    36    37-035-0004    1    7    PM10 Total 0-10um S:    10    37-035-0004    1    7
20040105    GOOD    PM2.5 - Local Con    20    37-035-0004    1    X
20040106    GOOD    PM2.5 - Local Con    24    37-035-0004    1    X
20040107    GOOD    PM2.5 - Local Con    28    37-035-0004    1    7
20040108    MODERATE    PM2.5 - Local Con    52    37-035-0004    1    X
20040109    MODERATE    PM2.5 - Local Con    52    37-035-0004    1    X
20040110    MODERATE    PM2.5 - Local Con    51    37-035-0004    1    7    PM10 Total 0-10um S:    18    37-035-0004    1    7
20040111    MODERATE    PM2.5 - Local Con    64    37-035-0004    1    X
20040112    GOOD    PM2.5 - Local Con    39    37-035-0004    1    X
20040113    GOOD    PM2.5 - Local Con    28    37-035-0004    1    X
20040114    GOOD    PM2.5 - Local Con    43    37-035-0004    1    X
20040115    GOOD    PM2.5 - Local Con    22    37-035-0004    1    X
20040116    GOOD    PM2.5 - Local Con    34    37-035-0004    1    X    PM10 Total 0-10um S:    17    37-035-0004    1    7
20040117    MODERATE    PM2.5 - Local Con    54    37-035-0004    1    X
20040118    GOOD    PM2.5 - Local Con    40    37-035-0004    1    X
20040119    GOOD    PM2.5 - Local Con    34    37-035-0004    1    X
20040120    MODERATE    PM2.5 - Local Con    54    37-035-0004    1    X
20040121    MODERATE    PM2.5 - Local Con    75    37-035-0004    1    X
20040122    MODERATE    PM2.5 - Local Con    54    37-035-0004    1    X    PM10 Total 0-10um S:    16    37-035-0004    1    7
20040123    GOOD    PM2.5 - Local Con    27    37-035-0004    1    X
20040124    GOOD    PM2.5 - Local Con    43    37-035-0004    1    X
20040125    GOOD    PM2.5 - Local Con    47    37-035-0004    1    X
20040126    MODERATE    PM2.5 - Local Con    52    37-035-0004    1    X
```

3.7.2.2 Workfile Output

The workfile is a fixed-position text file. The format of the workfile is as follows:

Column	Start of Column Number	Field Length
State Code	1	2
County Code	3	3

City Code	6	5
Urbanized Area Code	11	4
MSA Code	15	4
AQI Date	19	8
AQI Value	27	5
Controlling Parameter Code	32	5
Duration Code	37	1
AQI Category	38	30
Site ID of the Maximum Site	68	9
AQI Value Parameter Site Count	77	5
AQI Sub-Index ₁ Value	82	5
AQI Sub-Index ₁ Parameter	87	5
AQI Sub-Index ₁ Duration	92	1
Site ID where Sub-Index ₁ Occurred	93	9
Sub-Index ₁ Parameter Site Count	102	5
AQI Sub-Index ₂ Value	107	5
AQI Sub-Index ₂ Parameter	112	5
AQI Sub-Index ₂ Duration	117	1
Site ID where Sub-Index ₂ Occurred	118	9
Sub-Index ₂ Parameter Site Count	127	5
AQI Sub-Index ₃ Value	132	5
AQI Sub-Index ₃ Parameter	137	5
AQI Sub-Index ₃ Duration	142	1
Site ID where Sub-Index ₃ Occurred	143	9
Sub-Index ₃ Parameter Site Count	152	5
AQI Sub-Index ₄ Value	157	5
AQI Sub-Index ₄ Parameter	162	5
AQI Sub-Index ₄ Duration	167	1
Site ID where Sub-Index ₄ Occurred	168	9
Sub-Index ₄ Parameter Site Count	177	5
AQI Sub-Index ₅ Value	182	5
AQI Sub-Index ₅ Parameter	187	5
AQI Sub-Index ₅ Duration	192	1
Site ID where Sub-Index ₅ Occurred	193	9
Sub-Index ₅ Parameter Site Count	202	5

3.7.2.3 XML Output

Not applicable for this report.

3.7.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if

		generated in PDF format)
DATA GROUPING	GROUP BY MSA	<p>This defines the geographic boundaries over which the AQI is calculated. AQI values may be evaluated by the following values:</p> <ul style="list-style-type: none"> • GROUP BY MSA • GROUP BY STATE • GROUP BY STATE AND COUNTY • GROUP BY STATE AND CITY • GROUP BY URBAN AREA

3.8 Summary Report: Air Quality Index Summary Report (AMP410S)

3.8.1 Report Description

The Air Quality Index (AQI) Summary Report produces a yearly matrix of AQI values for a selected group of monitors within a geographic range for a selected time range. The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after breathing polluted air. EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter), carbon monoxide, sulfur dioxide, and nitrogen dioxide.

Although the official AQI values are generated on a Metropolitan Statistical Area (MSA) basis, the AMP410S allows users to specify other geographic aggregation options. For each of the aggregated geographic areas, the report will show the AQI value for each day within a year, the number of AQI days within each of the AQI categories, the number of days with AQI values within the year, the maximum AQI value calculated for the year, and a per-pollutant based count of the number of days the given pollutant was the controlling pollutant.

3.8.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
DATA GROUPING	GROUP BY MSA	<p>This defines the geographic boundaries over which the AQI is calculated. AQI values may be evaluated by the following values:</p> <ul style="list-style-type: none">• GROUP BY MSA• GROUP BY STATE• GROUP BY STATE AND COUNTY• GROUP BY STATE AND CITY• GROUP BY URBAN AREA

3.9 Summary Report: Daily Summary Report (AMP435)

3.9.1 Report Description

The daily summary report provides basis statistics for all reported sample data with durations of less than 24 hours. In addition to sample data, the daily summaries will include any criteria pollutant data (regardless of the sample duration) as well as summarized NAAQS averages, when applicable.

The report will provide a tabular listing of the following daily statistics: average, number of samples, data capture rate for the day, maximum sample value, hour of the maximum sample value, and daily ranking. The daily ranking is a rank ordering of the maximum sample value compared with all other values for the monitor within the calendar year. The "Daily Ranking Number" value is only computed where all values are used in generating the statistics for the monitor-day-duration. This is true where the exceptional data type is "0" (no exceptional data in the set) or "2" (exceptional event data included).

3.9.2 Report Outputs

3.9.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM DAILY SUMMARY REPORT									
Jul. 8, 2005									
Monitor ID	Daily Coll. Date	Duration	EDT ID	Daily Arith Mean	Daily # Obs	Daily % Obs	Daily Coll Hour	Daily Max Sample Value	Daily Ranking Num
37-035-0004-11101-1	20040104	24 HOURS	0	23.0	1	100.0	0	23	4
37-035-0004-11101-1	20040110	24 HOURS	0	32.0	1	100.0	0	32	3
37-035-0004-11101-1	20040116	24 HOURS	0	35.0	1	100.0	0	35	1
37-035-0004-11101-1	20040122	24 HOURS	0	35.0	1	100.0	0	35	2
37-035-0004-11101-1	20040128	24 HOURS	0	19.0	1	100.0	0	19	5
37-035-0004-81102-1	20040104	24 HOURS	0	11.0	1	100.0	0	11	53
37-035-0004-81102-1	20040110	24 HOURS	0	19.0	1	100.0	0	19	36
37-035-0004-81102-1	20040116	24 HOURS	0	18.0	1	100.0	0	18	39
37-035-0004-81102-1	20040122	24 HOURS	0	17.0	1	100.0	0	17	41
37-035-0004-81102-1	20040128	24 HOURS	0	9.0	1	100.0	0	9	56
37-035-0004-88101-1	20040101	24 HOURS	0	14.30	1	100.0	0	14.3	58
37-035-0004-88101-1	20040104	24 HOURS	0	8.90	1	100.0	0	8.9	91
37-035-0004-88101-1	20040107	24 HOURS	0	8.70	1	100.0	0	8.7	94
37-035-0004-88101-1	20040110	24 HOURS	0	15.70	1	100.0	0	15.7	46
37-035-0004-88101-1	20040113	24 HOURS	0	7.60	1	100.0	0	7.6	102
37-035-0004-88101-1	20040116	24 HOURS	0	9.60	1	100.0	0	9.6	84
37-035-0004-88101-1	20040119	24 HOURS	0	9.60	1	100.0	0	9.6	85
37-035-0004-88101-1	20040122	24 HOURS	0	13.50	1	100.0	0	13.5	64
37-035-0004-88101-1	20040131	24 HOURS	0	5.60	1	100.0	0	5.6	110
37-035-0004-88101-3	20040101	1 HOUR	0	15.40	24	100.0	0	25.3	180
37-035-0004-88101-3	20040102	1 HOUR	0	23.26	22	92.0	9	44.6	20
37-035-0004-88101-3	20040103	1 HOUR	0	24.17	24	100.0	11	39.4	42
37-035-0004-88101-3	20040104	1 HOUR	0	8.87	24	100.0	2	16.0	309
37-035-0004-88101-3	20040105	1 HOUR	0	6.33	24	100.0	7	13.0	326
37-035-0004-88101-3	20040106	1 HOUR	0	7.35	22	92.0	16	12.6	329
37-035-0004-88101-3	20040107	1 HOUR	0	8.08	24	100.0	19	26.1	170
37-035-0004-88101-3	20040108	1 HOUR	0	16.12	24	100.0	7	28.3	129
37-035-0004-88101-3	20040109	1 HOUR	0	16.10	24	100.0	3	21.2	249
37-035-0004-88101-3	20040110	1 HOUR	0	14.66	24	100.0	19	22.6	219
37-035-0004-88101-3	20040111	1 HOUR	0	22.20	24	100.0	9	32.2	88

3.9.2.2 Workfile Format

A comma-separated workfile may be generated for this report. All alphanumeric values are contained within double quotes. The column order is as follows:

Order of Appearance	Column Name
1	State Code
2	County Code
3	County Name
4	Site ID
5	Parameter Code
6	POC
7	Collection Date
8	Duration Code
9	Duration Description
10	Unit Code
11	Unit Description
12	Exceptional Data Type Code
13	Arithmetic Mean
14	Number of Daily Observations
15	Percentage of Daily Observations
16	Hour of the Maximum Value for the Day
17	Daily Maximum Value
18	Ranking Number
19	Daily Criteria Indicator (Determines if the value is "Valid")

3.9.2.3 XML Format

Not applicable for this report.

3.9.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.10 Summary Report: Frequency Distribution Report (AMP230)

3.10.1 Report Description

The Frequency Distribution Report (AMP230) presents an annual statistical summary of the data reported by air quality monitors. The report presents site and monitor descriptive information as well as selected summary statistics. These statistics include, but are not limited to number of observations, number of observations above the standard, maximum value, and the defined percentiles for the system.

3.10.2 Report Outputs

3.10.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
FREQUENCY DISTRIBUTION REPORT

Jul. 14, 2005

North Carolina

Site ID: 37-035-0004
County: Catawba
City: Hickory
Support Agency: North Carolina Dept Of Environment And Natural Resources
Address: 1650 1ST STREET

AQCR: EASTERN MOUNTAIN
Urban Area: HICKORY, NC
Location Setting: SUBURBAN
Land Use: INDUSTRIAL

Latitude: +35.728889
Longitude: -81.365556
UTM Zone: 17
Utm Northing: 3953741
Utm Easting: 466940
Vertical Meas: 333.0

DUKE POWER ELECTRIC METER NO 72856943:

Site Comments:

Parameter	POC	Reporting Org	Method of Collection and Analysis								MDL	Duration	EDT	Unit Desc		
Year	Exc	Evt	%Obs	#Obs	#Pri	#Sec	Min	Obs	Percentages					Maximum Values	Arith Mean	
11101-Suspended particulate (TSP)	1			0776					HI-VOL	GRAVIMETRIC	1	24 HOURS	0	UG/CU METER (25 C)		
2004	0		5				19	10	25	50	75	90	95	98	99	1 2 28.8
								19	23	32	35	35	35	35	35	35
81102-PM10 Total 0-10um STD	1			0776					HI-VOL-WEDDING-INLET	GRAVIMETRIC	4	24 HOURS	0	UG/CU METER (25 C)		
2004	0	92	57	0	0		9	10	25	50	75	90	95	98	99	1 2 21.9
								12	17	21	24	36	37	42	44	42
88101-PM2.5 - Local Conditions	1			0776					R & P MODEL 2025 PM2.5 SEQUENTIAL	GRAVIMETRIC	2	24 HOURS	0	UG/CU Meter (LC)		
2004	0	95	118	0	0		3.2	10	25	50	75	90	95	98	99	1 2 15.09
								6.7	9.3	13.9	19.2	25.7	28.8	34.0	35.9	37.4 35.9
88101-PM2.5 - Local Conditions	3			0776					PM2.5 SCC w/Correction Factor	TBOM Gravimetric 50 deg C	-10	1 HOUR	0	UG/CU Meter (LC)		
2004	0	93	8139				.0	10	10	25	25	50	50	75	90	1 2 15.78
								5.8	7.7	9.3	11.1	14.5	14.9	19.0	20.5 24.4	75.4 72.3
88101-PM2.5 - Local Conditions	5			1217					Met One SASS Teflon	Gravimetric	.104	24 HOURS	0	UG/CU Meter (LC)		
2004	0	92	56	0	0		4.1	10	25	50	75	90	95	98	99	1 2 16.11
								6.9	10.9	15.2	20.6	26.4	30.9	32.9	39.2	39.2 32.9

Page 2 of 3

3.10.2.2 Workfile Format

Not applicable for this report.

3.10.2.3 XML Format

Not applicable for this report.

3.10.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
EVENTS PROCESSING	REPORT ALL EVENT RECORDS	<p>The data is summarized multiple times in cases where exceptional or natural events exist in the dataset. The following options are available</p> <ul style="list-style-type: none">• Include Events• Exclude Events• Exclude Exceptional Events• Exclude Natural Events• Exclude Regionally Concurred Events• Exclude Exceptional Events w/ Regional concurrence• Exclude Natural Events w/ Regional concurrence• Report all Event Records
SUMMARY CRITERIA	INCLUDE ALL DATA	<p>You may optionally omit any data that does not meet the summary criteria.</p> <ul style="list-style-type: none">• Include All Data• Only Include Data Meeting Summary Criteria

3.11 Summary Report: Maximum Values Report (AMP440)

3.11.1 Report Description

The Maximum Values Report (AMP440) presents an annual statistical summary of the data reported by air quality monitors. The report presents site and monitor descriptive information as well as selected summary statistics. These statistics include, but are not limited to number of observations, number of observations above the standard, maximum value, and the 10 highest samples for the monitor during a given year.

3.11.2 Report Outputs

3.11.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY												
AIR QUALITY SUBSYSTEM												
MAXIMUM VALUES REPORT												
Jul. 14, 2005												
PM2.5 - Local Conditions (#8101)												
State:	North Carolina								Primary: 65			
Duration:	24 HOURS								Secondary: 65			
Year:	2004								Unit: U2/CU Meter (LC)			
Maximum Values												
Site ID	DOC	County Name	City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	HIT ID
37-035-0004	1	Catawba	Catawba	118	37.4	35.9	34.0	32.9	29.9	118	0	0
Hickory					09/30:00	09/24:00	08/04:00	08/25:00	08/31:00			
					28.8	28.2	28.2	28.1	27.2			
					06/08:00	05/09:00	08/19:00	09/03:00	07/23:00			
Maximum Values												
Site ID	DOC	County Name	City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	HIT ID
37-035-0004	5	Catawba	Catawba	810	39.2	32.9	30.9	29.9	27.5	56	0	0
Hickory					09/30:00	08/25:00	06/08:00	08/19:00	09/24:00			
					26.4	25.7	25.4	22.6	22.2			
					11/11:00	08/31:00	07/20:00	02/09:00	10/30:00			
Maximum Values												
Site ID	DOC	County Name	City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	HIT ID
37-035-0006	1	Catawba	Catawba	118	40.8	35.7	31.5	28.8	27.4	61	0	0
Hickory					09/30:00	08/04:00	08/25:00	07/17:00	10/03:00			
					27.1	27.1	26.0	25.1	24.2			
					07/23:00	08/19:00	09/24:00	08/31:00	08/10:00			
PM2.5 - Local Conditions (#8101)												
State:	North Carolina								Primary: 65			
Duration:	24-HR BLK AVG								Secondary: 65			
Year:	2004								Unit: U2/CU Meter (LC)			

Page 3 of 4

3.11.2.2 Workfile Format

Not applicable for this report.

3.11.2.3 XML Format

Not applicable for this report.

3.11.3 Report Options

Option Name	Default Value	Description
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MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
EVENTS PROCESSING	REPORT ALL EVENT RECORDS	<p>The data is summarized multiple times in cases where exceptional or natural events exist in the dataset. The following options are available</p> <ul style="list-style-type: none"> • Include Events • Exclude Events • Exclude Exceptional Events • Exclude Natural Events • Exclude Regionally Concurred Events • Exclude Exceptional Events w/ Regional concurrence • Exclude Natural Events w/ Regional concurrence • Report all Event Records

3.12 Summary Report: Quick Look All Parameters Report (AMP450NC)

3.12.1 Report Description

The Quick Look All Parameters Report displays annual summary statistics for selected parameters at air quality monitoring sites. In addition to the summary statistics, a listing of the reporting organization codes referenced in the report is provided, as well as a listing of referenced sampling methodology codes.

3.12.2 Report Outputs

3.12.2.1 Formatted Report

3.12.2.1.1 Main Report Body

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM QUICKLOOK ALL PARAMETERS													
Jul. 15, 2005													
Parameter	Unit	D O C	Rep Org	Year	Meth	# Obs	1st Max Value	2nd Max Value	3rd Max Value	4th Max Value	Arith. Mean	Duration	EDT
Site ID: 37-001-0002 City: Burlington													
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	1 0776	2004	118	116	39.0	33.1	30.5	30.3	13.75	24 HOURS	0
Site ID: 37-003-0003 City: Not in a city													
44201 Ozone	PPM		1 0776	2004	047	4859	.084	.084	.079	.076	.0500	1 HOUR	0
Site ID: 37-003-0004 City: Not in a city													
44201 Ozone	PPM		1 0776	2004	047	1852	.084	.075	.071	.065	.0423	1 HOUR	0
Site ID: 37-011-0002 City: Not in a city													
44201 Ozone	PPM		1 0776	2004	047	4739	.078	.077	.075	.074	.0485	1 HOUR	0
Site ID: 37-013-0006 City: Not in a city													
42401 Sulfur dioxide	PPM		1 0776	2004	009	7582	.122	.115	.108	.100	.0032	1 HOUR	0
Site ID: 37-021-0030 City: Asheville													
44201 Ozone	PPM		1 0779	2004	047	5077	.091	.089	.087	.083	.0500	1 HOUR	0
Site ID: 37-021-0034 City: Asheville													
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	1 0779	2004	118	115	32.8	26.9	26.8	25.9	12.30	24 HOURS	0
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	2 0779	2004	118	60	33.0	24.1	22.8	22.7	12.12	24 HOURS	0
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	3 0776	2004	702	7064	215.0	79.4	77.0	59.1	13.53	1 HOUR	0
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	5 1217	2004	810	57	28.3	26.2	25.2	23.2	12.97	24 HOURS	0
Site ID: 37-025-0004 City: Kannapolis													
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	1 0776	2004	118	121	37.2	31.2	29.7	29.7	14.67	24 HOURS	0
Site ID: 37-027-0003 City: Lenoir													
44201 Ozone	PPM		1 0776	2004	047	4798	.084	.081	.077	.076	.0497	1 HOUR	0
Site ID: 37-029-0099 City: Not in a city													
44201 Ozone	PPM		1 0776	2004	047	4819	.086	.083	.083	.082	.0499	1 HOUR	0
Site ID: 37-033-0001 City: Not in a city													
44201 Ozone	PPM		1 0776	2004	047	4880	.100	.088	.085	.084	.0503	1 HOUR	0
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	1 0776	2004	118	117	42.6	32.5	28.3	27.9	13.09	24 HOURS	0
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	5 1217	2004	810	2	17.2	10.7			13.95*	24 HOURS	0
Site ID: 37-035-0004 City: Hickory													
11101 Suspended particulate (TSP)	UG/CU METER (25 C)		1 0776	2004	091	5	35	35	32	23	28.8*	24 HOURS	0
91102 PM10 Total 0-10um STP	UG/CU METER (25 C)		1 0776	2004	062	57	44	42	37	37	21.9*	24 HOURS	0
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	1 0776	2004	118	118	37.4	35.9	34.0	32.9	15.09	24 HOURS	0
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	3 0776	2004	702	8139	75.4	72.3	67.5	67.0	15.78	1 HOUR	0
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	5 1217	2004	810	56	39.2	32.9	30.9	29.9	16.11	24 HOURS	0
Site ID: 37-035-0006 City: Hickory													
98101 PM2.5 - Local Conditions	UG/CU Meter	(LC)	1 0776	2004	118	61	40.8	35.7	31.5	28.8	15.18*	24 HOURS	0

3.12.2.1.2 Methods Listing

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Jul. 15, 2005

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
11101	091	HI-VOL	GRAVIMETRIC
42101	054	INSTRUMENTAL	NONDISPERSIVE INFRARED
42101	055	INSTRUMENTAL	NONDISPERSIVE INFRARED
42401	009	INSTRUMENTAL	PULSED FLUORESCENT
42401	060	INSTRUMENTAL	PULSED FLUORESCENT
42401	100	INSTRUMENTAL	ULTRAVIOLET FLUORESCENCE
42602	074	INSTRUMENTAL	CHEMILUMINESCENCE
42602	099	INSTRUMENTAL	GAS PHASE CHEMILUMINESCENCE
44201	047	INSTRUMENTAL	ULTRA VIOLET
91102	062	HI-VOL-WEDDING-INLET	GRAVIMETRIC
91102	063	HI-VOL SA/GM-1200	GRAVIMETRIC
91102	079	INSTRUMENTAL-R&P SA246B-INLET	TEOM-GRAVIMETRIC
98101	118	R & P MODEL 2025 PM2.5 SEQUENTIAL	GRAVIMETRIC
98101	702	PM2.5 SCC w/Correction Factor	TEOM Gravimetric 50 deg C
98101	810	Met One SASS Teflon	Gravimetric

3.12.2.1.3 Reporting Organization Listing

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Jul. 15, 2005

REPORTING ORGANIZATIONS USED IN THIS REPORT

REPORTING ORGANIZATION CODE	AGENCY DESCRIPTION
001	Eastern Band Of Cherokee Indians Of North Carolina
0403	Forsyth County Environmental Affairs Department
0669	Wachlenburg County Air Quality
0776	North Carolina Dept Of Environment And Natural Resour
0779	North Carolina Western Regional Air Pollution Control
1217	Research Triangle Institute RTP, NC

3.12.2.2 Workfile Format

The workfile is a fixed-position text file. The format of the workfile is as follows:

Column	Start of Column Number	Field Length
State Code	1	2
County Code	3	3
Site Code	6	4
Parameter Code	10	5
Parameter Occurrence Code (POC)	15	2
Exceptional Data Type (EDT)	17	1
Duration Code	18	1
Summary Year	19	4
Unit Code	23	3
Region Code	26	2
AQCR Code	28	3
MSA Code	31	4
UAR Code	35	4
City Code	39	5
Column	Start of Column Number	Field Length
Street Address	44	40

Site Latitude	84	10
Site Longitude	94	11
Number of Observations	105	4
Highest Value in the Year	109	7
2 nd Highest Value in the Year	116	7
3 rd Highest Value in the Year	123	7
4 th Highest Value in the Year	130	7
Arithmetic Mean	137	7
Criteria Indicator	144	1
Method Code	145	3
Reporting Organization Code	148	4

3.12.2.3 XML Format

Not applicable for this report

3.12.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS	<p>The data is summarized multiple times in cases where exceptional or natural events exist in the dataset. The following options are available</p> <ul style="list-style-type: none"> • Include Events • Exclude Events • Exclude Exceptional Events • Exclude Natural Events • Exclude Regionally Concurred Events • Exclude Exceptional Events w/ Regional concurrence • Exclude Natural Events w/ Regional concurrence • Report all Event Records

3.13.2.1.3 Carbon Monoxide Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Jul. 15, 2005

Carbon monoxide (42101)					North Carolina												PPM (007)	
SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	# OBS	1ST MAX 1-HR	2ND MAX 1-HR	OBS >35	1ST MAX 8-HR	2ND MAX 8-HR	OBS >9	CERT	EDT		
37-051-0007	1	0776	Fayetteville	Cumberland	CUMBERLAND CO AI 2004	054	4167	8.6	8.0	0	3.2	2.8	0	0				
37-063-0013	1	0776	Durham	Durham	2700 NORTH DUKE 2004	054	2748	1.4	1.4	0	.9	.9	0	0				
37-067-0022	1	0403	Winston-Salem	Forsyth	1300 BLK. HATTIE 2004	054	2083	1.4	1.3	0	1.0	.9	0	0				
37-067-0023	1	0403	Winston-Salem	Forsyth	1401 CORPORATION 2004	054	8151	4.1	3.8	0	3.2	3.1	0	0				
37-067-0029	1	0403	Winston-Salem	Forsyth	1985 GRIFFITH R 2004	054	8074	4.5	4.4	0	3.2	3.1	0	0				
37-081-1011	1	0776	Greensboro	Guilford	401 WEST WENDOVE 2004	054	4087	3.0	3.0	0	2.6	2.6	0	0				
37-119-0041	1	0669	Charlotte	Macklenburg	1120 Eastway Dr: 2004	054	8557	3.8	3.5	0	3.2	3.1	0	0				
37-119-0041	2	0669	Charlotte	Macklenburg	1120 Eastway Dr: 2004	055	2460	1.546	1.377	0	1.2	1.0	0	0				

3.13.2.1.4 Sulfur Dioxide Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Jul. 15, 2005

Sulfur dioxide (42401)										North Carolina										PPM (007)		
SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	# OBS	1ST MAX 24-HR	2ND MAX 24-HR	#OBS >0.14	1ST MAX 3-HR	2ND MAX 3-HR	#OBS >0.5	1ST MAX 1-HR	2ND MAX 1-HR	ARITH MEAN	CERT	EDT			
37-013-0006	1	0776	Not in a city	Beaufort	NC 306 s DC 2004	009	7582	.027	.022	0	.092	.086	0	.122	.115	.0032	0					
37-065-0099	1	0776	Tarboro	Edgcombe	RT 2, BOX 1 2004	009	7875	.009	.008	0	.016	.015	0	.018	.017	.0020	0					
37-067-0022	1	0403	Winston-Salem	Forsyth	1300 BLK. H 2004	100	8434	.026	.023	0	.084	.077	0	.149	.123	.0046	0					
37-119-0041	1	0669	Charlotte	Macklenburg	1120 Eastwa 2004	060	8677	.013	.012	0	.058	.037	0	.071	.068	.0032	0					
37-129-0006	1	0776	Wilmington	New Hanover	HIGHWAY 421 2004	009	8212	.022	.022	0	.085	.072	0	.255	.194	.0052	0					
37-145-0003	1	0776	Not in a city	Person	SR49 2004	009	8276	.026	.021	0	.095	.073	0	.119	.096	.0039	0					
37-173-0002	1	0776	Not in a city	Swain	CENTER STRE 2004	009	8230	.008	.006	0	.011	.010	0	.012	.012	.0021	0					
37-183-0014	1	0776	Raleigh	Wake	3801 SPRING 2004	009	5592	.013	.010	0	.019	.019	0	.029	.028	.0027	0					

3.13.2.1.5 Nitrogen Dioxide Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Jul. 15, 2005

Nitrogen dioxide (42602)										North Carolina					PPM (007)				
SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	# OBS	1ST MAX 1-HR	2ND MAX 1-HR	ARITH MEAN	CERT	EDT						
37-067-0022	1	0403	Winston-Salem	Forsyth	1300 BLK. HATTIE	2004	099	8591	.061	.061	.0129	0							
37-119-0041	1	0669	Charlotte	Macklenburg	1120 Eastway Dr:	2004	074	8552	.080	.064	.0145	0							

3.13.2.1.6 1-Hour Ozone Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Jul. 15, 2005

Ozone (44201)				North Carolina													PPM (007)		
1-HOUR																			
SITE ID	P	REP	CITY	COUNTY	ADDRESS	YEAR	METH	MEAS	VALID	NUM	1ST	2ND	3RD	4TH	DAY	EST	MISS	CERT	EDT
	O	ORG							DAYS	DAYS	MAX	MAX	MAX	MAX	MAX	DAYS	DAYS		
	C								REQ	1-HR	1-HR	1-HR	1-HR	1-HR	0.125	.125	0.125		
37-003-0003	1	0776	Not in a city	Alexander	324 MINNIGAN LA 2004	047	214	214	.084	.084	.079	.076	0	0.0	0	0	0	0	
37-003-0004	1	0776	Not in a city	Alexander	106 WAGGIN' TR: 2004	047	81	82	.084	.075	.071	.065	0	0.0	0	0	0	0	
37-011-0002	1	0776	Not in a city	Avery	7510 BLUE RIDGE 2004	047	207	214	.078	.077	.075	.074	0	0.0	0	0	0	0	
37-021-0030	1	0779	Asheville	Buncombe	ROUT 191 SOUTH 12004	047	214	214	.091	.089	.087	.083	0	0.0	0	0	0	0	
37-027-0003	1	0776	Lenoir	Caldwell	HWY 321 NORTH 2004	047	209	214	.084	.081	.077	.076	0	0.0	2	0	0	0	
37-029-0099	1	0776	Not in a city	Camden	COUNTY ROAD 113 2004	047	208	214	.086	.083	.083	.082	0	0.0	2	0	0	0	
37-033-0001	1	0776	Not in a city	Caswell	7074 CHERRY GRO 2004	047	214	214	.100	.088	.085	.084	0	0.0	0	0	0	0	

3.13.2.1.7 8-Hour Ozone Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Jul. 15, 2005

Ozone (44201)

North Carolina

PPM (007)

8-HOUR															
SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	VALID DAYS MEAS	NUM DAYS REQ	1ST MAX 8-HR	2ND MAX 8-HR	3RD MAX 8-HR	4TH MAX 8-HR	DAY MAX 0.085
37-003-0003	1	0776	Not in a city	Alexander	324 MINNIGAN LN	2004	047	95	203	214	.077	.074	.072	.071	0
37-003-0004	1	0776	Not in a city	Alexander	106 WAGGIN' TR	2004	047	95	78	82	.074	.067	.062	.056	0
37-011-0002	1	0776	Not in a city	Avery	7510 BLUE RIDGE	2004	047	95	204	214	.071	.070	.070	.068	0
37-021-0030	1	0779	Asheville	Buncombe	RCUT 191 SOUTH	2004	047	100	213	214	.080	.075	.074	.073	0
37-027-0003	1	0776	Lenoir	Caldwell	HWY 321 NORTH	2004	047	94	201	214	.074	.073	.071	.070	0
37-029-0099	1	0776	Not in a city	Candlen	COUNTY ROAD 113	2004	047	96	205	214	.078	.075	.074	.072	0
37-033-0001	1	0776	Not in a city	Caswell	7074 CHERRY CRO	2004	047	100	214	214	.079	.077	.077	.074	0
37-037-0004	1	0776	Not in a city	Chatham	RT4 BOX62 PITTS	2004	047	98	209	214	.074	.070	.068	.068	0

3.13.2.1.8 Particulate Matter (10 microns) Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Jul. 15, 2005

PM10 Total 0-10um STD (81102)

North Carolina

UG/CU METER (25 C) (001)

24-HOUR															
SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	NUM REQ	VALID DAYS #OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX >150	DAY EST >150
37-035-0004	1	0776	Hickory	Catawba	1650 1ST STREET	2004	062	57	61	56	92	44	42	37	37
37-051-0009	1	0776	Fayetteville	Cumberland	4533 BAREFORD	2004	062	62	61	61	100	36	35	33	33
37-063-0001	1	0776	Durham	Durham	HEALTH DEPT.,	2004	062	60	61	60	98	40	34	32	30
37-067-0022	1	0403	Winston-Salem	Forsyth	1300 BLK. HAT	2004	079	8663	366	364	99	52	50	42	40
37-067-0023	2	0403	Winston-Salem	Forsyth	1401 CORPORAT	2004	079	8706	366	366	100	62	56	52	48
37-081-0013	1	0776	Greensboro	Guilford	205 WILLOUGHBY	2004	062	56	61	56	92	31	30	30	29
37-089-1006	1	0776	Hendersonville	Henderson	CORNER OF ALLI	2004	062	58	61	58	95	37	35	34	32
37-119-0003	1	0669	Charlotte	Mecklenburg	FIRE STA #11	2004	063	61	61	61	100	47	42	42	40

3.13.2.1.9 Particulate Matter (2.5 microns) Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Jul. 15, 2005

PM2.5 - Local Conditions (88101)

North Carolina

UG/CU Meter (LC) (105)

24-HOUR															
SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT EDT
37-067-0022	1	0403	Winston-Salem	Forsyth	1300 BLK. HAT	2004	118	320	41.0	40.1	34.6	34.3	31.5	14.76	0
37-067-0022	3	0403	Winston-Salem	Forsyth	1300 BLK. HAT	2004	702	8582	45.0	43.3	36.7	35.0	31.7	15.63	0
37-067-0022	5	1217	Winston-Salem	Forsyth	1300 BLK. HAT	2004	810	60	36.1	34.1	32.4	32.0	34.1	16.51	0
37-067-0024	1	0403	Winston-Salem	Forsyth	NORTH FORESYTH	2004	118	109	39.4	36.3	33.6	30.9	33.6	14.05	0
37-071-0016	1	0776	Gastonia	Gaston	1622 EASTCARE	2004	118	121	33.7	32.6	30.8	30.4	30.8	14.16	0
37-071-0016	2	0776	Gastonia	Gaston	1622 EASTCARE	2004	118	30	26.7	22.7	21.3	21.2	26.7	13.77*	0
37-081-0013	1	0776	Greensboro	Guilford	205 WILLOUGHBY	2004	118	347	43.4	39.4	38.9	37.4	30.8	13.97	Y
37-081-0013	2	0776	Greensboro	Guilford	205 WILLOUGHBY	2004	118	54	37.5	28.6	27.0	26.2	28.6	14.18*	Y

3.13.2.1.10 Methods Listing

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Jul. 15, 2005

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
11101	091	HE-VOL	GRAVIMETRIC
42101	054	INSTRUMENTAL	NONDISPERSIVE INFRARED
42101	055	INSTRUMENTAL	NONDISPERSIVE INFRARED
42401	009	INSTRUMENTAL	PULSED FLUORESCENT
42401	060	INSTRUMENTAL	PULSED FLUORESCENT
42401	100	INSTRUMENTAL	ULTRAVIOLET FLUORESCENCE
42602	074	INSTRUMENTAL	CHEMILUMINESCENCE
42602	099	INSTRUMENTAL	GAS PHASE CHEMILUMINESCENCE
44201	047	INSTRUMENTAL	ULTRA VIOLET
91102	062	HE-VOL-WEDDING-INLET	GRAVIMETRIC
91102	063	HE-VOL SA/GMW-1200	GRAVIMETRIC
91102	079	INSTRUMENTAL-R&D SA246B-INLET	TEOM-GRAVIMETRIC
98101	119	R & D MODEL 2025 PM2.5 SEQUENTIAL	GRAVIMETRIC
98101	702	PM2.5 SCC w/Correction Factor	TEOM Gravimetric 50 deg C
98101	910	Met One SASS Teflon	Gravimetric

3.13.2.1.11 Reporting Organization Listing

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Jul. 15, 2005

REPORTING ORGANIZATIONS USED IN THIS REPORT

REPORTING ORGANIZATION CODE	AGENCY DESCRIPTION
001	Eastern Band Of Cherokee Indians Of North Carolina
0403	Forsyth County Environmental Affairs Department
0669	Mecklenburg County Air Quality
0776	North Carolina Dept Of Environment And Natural Resour
0779	North Carolina Western Regional Air Pollution Contro
1217	Research Triangle Institute RTP, NC

3.13.2.2 Workfile Formats

All the following workfiles are fixed length workfiles. Each criteria pollutant has a unique format. The format for each pollutant is provided below.

The workfile is a fixed-position text file. The format for columns 1 – 104 is the same for all the formats.

Column	Start of Column Number	Field Length
State Code	1	2
County Code	3	3
Site Code	6	4
Parameter Code	10	5
Parameter Occurrence Code (POC)	15	2
Exceptional Data Type (EDT)	17	1
Duration Code	18	1
Summary Year	19	4
Unit Code	23	3

Column	Start of Column Number	Field Length
Region Code	26	2
AQCR Code	28	3
MSA Code	31	4
UAR Code	35	4
City Code	39	5
Street Address	44	40
Site Latitude	84	10
Site Longitude	94	11

3.13.2.2.1 TSP Workfile Format

Column	Start of Column Number	Field Length
Number of Observations	105	4
Highest Reading for the Year	109	7
2 nd Highest Reading for the Year	116	7
3 rd Highest Reading for the Year	123	7
4 th Highest Reading for the Year	130	7
Arithmetic Mean	137	7
Criteria Indicator	144	1
Geometric Mean	145	7
Geometric Standard Deviation	152	7
Method Code	159	3
Certification Indicator	162	1
Reporting Organization Code	163	4

3.13.2.2.2 Lead Workfile Format

Column	Start of Column Number	Field Length
Number of Observations	105	4
1 st Quarter Arithmetic Mean	109	7
1 st Quarter Criteria Indicator	116	1
2 nd Quarter Arithmetic Mean	117	7
2 nd Quarter Criteria Indicator	124	1
3 rd Quarter Arithmetic Mean	125	7
3 rd Quarter Criteria Indicator	132	1
4 th Quarter Arithmetic Mean	133	7
4 th Quarter Criteria Indicator	140	1
Number of Quarters > Standard	141	4
Highest Value for the Year	145	7
2 nd Highest Value for the Year	152	7
Method Code	159	3
Certification Indicator	162	1
Reporting Organization Code	163	4

3.13.2.2.3 Carbon Monoxide Workfile Format

The workfile is a fixed-position text file. The format of the workfile is as follows:

Column	Start of Column Number	Field Length
Number of Observations	105	4
Highest 1-hour Observation	109	7
2 nd Highest 1-hour Observation	116	7
Highest 8-hour Observation	123	7
2 nd Highest 8-hour Observation	130	7
Number of Primary Violations	137	4
Number of Non-overlapping Violations	141	4
Method Code	145	3
Certification Indicator	148	1
Reporting Organization Code	149	4

3.13.2.2.4 Sulfur Dioxide Workfile Format

Column	Start of Column Number	Field Length
Number of Observations	105	4
Highest 24-hour Observation	109	7
2 nd Highest 24-hour Observation	116	7
Highest 3-hour Observation	123	7
2 nd Highest 3-hour Observation	130	7
Highest 1-hour Observation	137	7
2 nd Highest 1-hour Observation	144	7
Number of Primary Violations	151	4
Number of Secondary Violations	155	4
Arithmetic Mean	159	7
Criteria Indicator	166	1
Method Code	167	3
Certification Indicator	170	1
Reporting Organization Code	171	4

3.13.2.2.5 Nitrogen Dioxide Workfile Format

Column	Start of Column Number	Field Length
Number of Observations	105	4
Highest Observation	109	7
2 nd Highest Observation	116	7
Arithmetic Mean	123	7
Criteria Indicator	130	1
Method Code	131	3
Certification Indicator	134	1
Reporting Organization Code	135	4

3.13.2.2.6 1-Hour Ozone Workfile Format

Column	Start of Column Number	Field Length
Number of Valid Days	105	3
Number of Required Days	108	4
Highest Observation	112	7
2 nd Highest Observation	119	7
3 rd Highest Observation	126	7
4 th Highest Observation	133	7
Number of Primary Violations	140	4
Estimated Days > Standard	144	7
Missing Days Assumed < Standard	151	3
Method Code	154	3
Certification Indicator	157	1
Reporting Organization Code	158	4

3.13.2.2.7 8-Hour Ozone Workfile Format

Column	Start of Column Number	Field Length
Number of Observations	105	4
Percent of Observations	109	3
Highest Observation	112	7
2 nd Highest Observation	119	7
3 rd Highest Observation	126	7
4 th Highest Observation	133	7
Number of Primary Violations	140	4
Number of Methods Used	144	2
Missing Days Assumed < Standard	146	3
Certification Indicator	149	1
Method Code	150	3
Reporting Organization Code	153	4
Number of Valid Days	157	4
Number of Required Days	161	4

3.13.2.2.8 PM₁₀ Workfile Format

Column	Start of Column Number	Field Length
Number of Valid Days	105	3
Number of Observations	108	4
Percent of Observations	112	3
Number of Required Days	115	4
Highest Observation	119	7
2 nd Highest Observation	126	7
3 rd Highest Observation	133	7
4 th Highest Observation	140	7

Column	Start of Column Number	Field Length
Number of Primary Violations	147	4
Number of Estimated Exceedances	151	7
Weighted Arithmetic Mean	158	7
Criteria Indicator	165	1
Method Code	166	3
Certification Indicator	169	1
Reporting Organization Code	170	4
Number of Actual Observations	174	4

3.13.2.2.9 *PM_{2.5} Workfile Format*

Column	Start of Column Number	Field Length
Number of Observations	105	4
Highest Observation	109	7
2 nd Highest Observation	116	7
3 rd Highest Observation	123	7
4 th Highest Observation	130	7
98 th Percentile	137	4
Arithmetic Mean	141	7
Criteria Indicator	148	1
Method Count	149	2
Certification Indicator	151	1
Method Code	152	3
Reporting Organization Code	155	4
Number of Actual Observations	159	4

3.13.2.3 XML Format

Not applicable for this report

3.13.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS	<p>The data is summarized multiple times in cases where exceptional or natural events exist in the dataset. The following options are available</p> <ul style="list-style-type: none">• Include Events• Exclude Events• Exclude Exceptional Events• Exclude Natural Events• Exclude Regionally Concurred Events• Exclude Exceptional Events w/ Regional concurrence• Exclude Natural Events w/ Regional concurrence• Report all Event Records

3.14 Summary Report: Reduced Frequency Distribution Report (AMP260)

3.14.1 Report Description

The Reduced Frequency Distribution Report (AMP260) presents an annual statistical summary of the data reported by air quality monitors. These statistics include, but are not limited to number of observations, number of observations above the standard, maximum value, and the defined percentiles for the system.

3.14.2 Report Outputs

3.14.2.1 Formatted Report

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
REDUCED FREQUENCY DISTR REPORT

Jul. 15, 2005

Parameter: (44201) Ozone
State: (37) North Carolina

AQS Site ID	Year	POC	Duration Unit	EDT	PC7/ NBR Obs	County	Percentiles										Max Obs	2nd Max	Min Val	Arith Mean / STD
37-183-0014																				
						Wake														
2004	1		1 HOUR	0	100	10	25	50	75	90	95	98	99	1	2	.007	.0526			
			PWM		6279	.026	.033	.047	.060	.072	.079	.084	.086	.090	.087		.0163			
	1		8-HR RUN AVG	0	98	10	25	50	75	90	95	98	99	1	2	.003	.0460			
			BEGIN HOUR		6521	.021	.028	.041	.054	.065	.070	.073	.075	.078	.077		.0152			
			PWM																	
37-183-0016																				
						Wake														
2004	1		1 HOUR	0	100	10	25	50	75	90	95	98	99	1	2	.016	.0514			
			PWM		4870	.031	.042	.052	.061	.071	.078	.085	.088	.092	.091		.0155			
	1		8-HR RUN AVG	0	96	10	25	50	75	90	95	98	99	1	2	.009	.0456			
			BEGIN HOUR		5020	.024	.036	.045	.057	.066	.070	.075	.078	.085	.083		.0150			
			PWM																	
37-183-0017																				
						Wake														
2004	1		1 HOUR	0	96	10	25	50	75	90	95	98	99	1	2	.013	.0508			
			PWM		4701	.028	.040	.050	.063	.073	.078	.088	.090	.095	.095		.0171			
	1		8-HR RUN AVG	0	94	10	25	50	75	90	95	98	99	1	2	.002	.0438			
			BEGIN HOUR		4870	.020	.033	.042	.056	.065	.072	.077	.079	.082	.080		.0161			
			PWM																	

3.14.2.2 Workfile Format

Not applicable for this report.

3.14.2.3 XML Format

Not applicable for this report.

3.14.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
EVENTS PROCESSING	REPORT ALL EVENT RECORDS	<p>The data is summarized multiple times in cases where exceptional or natural events exist in the dataset. The following options are available</p> <ul style="list-style-type: none">• Include Events• Exclude Events• Exclude Exceptional Events• Exclude Natural Events• Exclude Regionally Concurred Events• Exclude Exceptional Events w/ Regional concurrence• Exclude Natural Events w/ Regional concurrence• Report all Event Records
SUMMARY CRITERIA	INCLUDE ALL DATA	<p>You may optionally omit any data that does not meet the summary criteria.</p> <ul style="list-style-type: none">• Include All Data• Only Include Data Meeting Summary Criteria

3.15 Quality Assurance Report: Accuracy Report (AMP247)

3.15.1 Report Description

The Accuracy Report provides an output of raw accuracy value pairs and their percent differences. The data is grouped by Parameter, Tribal Area (if in tribal mode) or State, and Reporting Organization.

3.15.2 Report Outputs

3.15.2.1 Formatted Report Output

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY								
AIR QUALITY SYSTEM								
ACCURACY REPORT								
28 January 2005								
Parameter:	(11101) Suspended particulate (TSP)							
State:	North Carolina							
Agency:	North Carolina Dept Of Environment And Natural Resources							
Accuracy Type	Monitor ID	Conc Level	Date	Above Criteria	Unit Desc	Actual Value	Indicated Value	Relative % Diff
PE	37-035-0004-11101-1	2	20040123	N	CUBIC FEET/MINUTE	39.06	37.94	-2.9
Parameter:	(81102) PM10 Total 0-10um STP							
State:	North Carolina							
Agency:	North Carolina Dept Of Environment And Natural Resources							
Accuracy Type	Monitor ID	Conc Level	Date	Above Criteria	Unit Desc	Actual Value	Indicated Value	Relative % Diff
PE	37-035-0004-81102-1	2	20040204	N	CUBIC FEET/MINUTE	40.38	40.58	0.5
PE	37-035-0004-81102-1	2	20040513	N	CUBIC FEET/MINUTE	41.17	41.82	1.6
PE	37-035-0004-81102-1	2	20040809	N	CUBIC FEET/MINUTE	40.84	40.76	-0.2
PE	37-035-0004-81102-1	2	20041109	N	CUBIC FEET/MINUTE	41.62	42.10	1.1
Parameter:	(88101) PM2.5 - Local Conditions							
State:	North Carolina							
Agency:	North Carolina Dept Of Environment And Natural Resources							
Accuracy Type	Monitor ID	Conc Level	Date	Above Criteria	Unit Desc	Actual Value	Indicated Value	Relative % Diff
PE	37-035-0004-88101-1	2	20040204	N	Liters/minute STP	16.46	16.63	1.0
PE	37-035-0004-88101-1	2	20040511	N	Liters/minute STP	16.34	16.63	1.8
PE	37-035-0004-88101-1	2	20040809	N	Liters/minute STP	17.11	16.63	-2.8
PE	37-035-0004-88101-3	1	20040224	N	Liters/minute STP	2.99	3.00	0.3
PE	37-035-0004-88101-3	1	20040511	N	Liters/minute STP	2.97	3.00	1.0
PE	37-035-0004-88101-3	1	20040825	N	Liters/minute STP	3.02	3.00	-0.7
PE	37-035-0004-88101-3	1	20041110	N	Liters/minute STP	2.97	3.00	1.0
PE	37-035-0006-88101-1	2	20040809	N	Liters/minute STP	16.77	16.66	-0.7

3.15.2.2 Workfile Output

Not applicable for this report.

3.15.2.3 XML Output

Not applicable for this report.

3.15.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.16 Quality Assurance Report: Critical Review Monitor Description Changes (G73)

3.16.1 Report Description

When data is updated to the AQS system, there are certain circumstances in which personnel at EPA headquarters would like to be made aware. These items include descriptive information at the monitor level that defines how the monitor was configured or was sited. Items that appear for review are called “Critical Review” elements. This report displays information about changes to monitor descriptive information that are categorized as critical review items. It also notes the closure of monitors that are designated to be part of the national network.

It is important to note that this report differs from most reports with respect to the meaning of the date selection elements. In most reports, this date selection pertains to the date on which data was collected. For this report, the date selection refers to the date that the record was changed.

3.16.2 Report Outputs

3.16.2.1 Formatted Report

3.16.2.1.1 Part 1 – Monitor Description Changes

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MONITOR CHANGES CRITICAL REVIEW REPORT

AUG. 3, 2005

PART 1 - CHANGED MONITOR INFORMATION

ERA REGION:	04 ATLANTA	MONITOR TYPE	STAGS	MT BEGIN DATE	MT CREATION DATE
MONITOR ID:	01-103-8811-88101-1			2081/08/87	2081/12/25
SCHEMATIC GROUP:	ATLANTA				
----- MONITOR OBJECTIVES -----					
OBJECTIVE TYPE	UPDATE DATE	URBAN AREA	MSA	CHRA	
POPULATION EXPOSURE		*		DOUBT, AS	
	2082/08/15	U		NOT IN AN URBAN AREA	

ERA REGION:	04 ATLANTA	MONITOR TYPE	STAGS	MT BEGIN DATE	MT CREATION DATE
MONITOR ID:	01-109-8803-12129-1			1981/01/81	2081/12/25
SCHEMATIC GROUP:	ATLANTA				
----- MONITOR -----					
UPDATE DATE	FROM LOCATION	FROM ST	MONITOR DIST	VENT DIST	MSA SCALE
	* GROUND LEVEL SUPPORT	3	-555	-555	MT08080000
2082/01/29	UWVL				
----- MONITOR OBJECTIVES -----					
OBJECTIVE TYPE	UPDATE DATE	URBAN AREA	MSA	CHRA	
HIGHEST CONCENTRATION		*		DOUBT, AS	
	2082/01/29	U		NOT IN AN URBAN AREA	

----- REQUIRED COLLECTION FREQUENCIES -----					
SCF BEGIN DATE	UPDATE DATE	REQ COLL FRQ	SCF END DATE		
1988/01/81	2084/04/30	1	4		

ERA REGION:	04 ATLANTA	MONITOR TYPE	STAGS	MT BEGIN DATE	MT CREATION DATE
MONITOR ID:	01-109-8803-12129-2			1981/01/81	2082/01/29
SCHEMATIC GROUP:	ATLANTA				
----- REQUIRED COLLECTION FREQUENCIES -----					
SCF BEGIN DATE	UPDATE DATE	REQ COLL FRQ	SCF END DATE		
1988/01/81	2084/04/30	1	4		

* - CURRENT VALUES

PAGE 2 OF 11

page 8 of 11

3.16.2.1.2 Part II – Closed Monitor Types

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM MONITOR CHANGE CRITICAL MONITOR REPORT						AUG. 3, 2005
PART II - CLOSED MONITOR TYPES						
STATION	MONITOR ID	MONITOR TYPE	MT BEGIN DATE	MT END DATE	OFFLINE DATE	
84	03-848-1802-0102-1	SLAB	1998/01/01	2002/02/28	2004/07/23	
84	03-848-1802-0102-1	SLAB	1998/01/01	2003/12/31	2004/07/18	
84	03-848-1802-0102-3	SLAB	1997/03/28	2003/12/31	2004/07/18	
84	03-848-1802-0102-1	SLAB	1998/01/01	2003/12/31	2004/07/18	
84	03-848-1802-0101-1	SLAB	1998/01/01	2004/08/31	2004/11/08	
84	03-873-0803-0102-1	SLAB	1994/06/28	2003/01/01	2001/08/11	
84	03-873-0803-0102-1	SLAB	1998/06/28	2003/12/31	2004/07/18	
84	03-873-0802-0102-1	SLAB	1998/02/27	2002/10/29	2002/12/04	
84	03-873-0813-0102-1	SLAB	1998/02/03	2001/12/16	2002/07/16	
84	03-897-0810-0102-3	SLAB	1997/03/12	1999/10/31	2003/08/14	
84	03-897-0820-04201-1	SLAB	1991/01/01	2000/02/01	2002/07/01	
84	03-897-2003-0101-1	SLAB	2000/01/01	2003/12/31	2004/07/18	
84	03-101-0807-0102-1	SLAB	1998/03/03	2002/09/03	2002/12/04	
84	03-101-1802-0102-1	SLAB	1993/08/16	2003/12/31	2004/07/18	
84	03-101-0811-0102-1	SLAB	2001/08/07	2002/09/03	2002/12/04	
84	03-108-0803-0102-1	SLAB	1998/01/01	2003/12/31	2004/07/18	
84	03-113-0801-0102-1	SLAB	1998/04/10	2003/12/31	2004/07/16	
84	03-113-0803-0102-2	SLAB	1997/03/26	2002/01/26	2002/07/23	
84	03-121-0802-0102-1	SLAB	1998/01/01	2003/12/31	2004/07/18	
84	03-121-1802-0102-1	SLAB	1998/01/01	2003/12/31	2004/07/16	
84	03-128-0803-0101-1	SLAB	1998/01/01	2001/02/24	2002/07/16	
* - CLOSURE VALUE						
PAGE 11 OF 11						

3.16.2.2 Workfile Format

Not applicable for this report.

3.16.2.3 XML Format

Not applicable for this report.

3.16.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.17 Quality Assurance Report: Critical Review Precision & Accuracy Monitor Summary (G75)

3.17.1 Report Description

When data is updated to the AQS system, there are certain circumstances in which personnel at EPA headquarters would like to be made aware. These items include large percent differences for precision and accuracy values. Items that appear for review are called “Critical Review” elements. This report displays information about precision and accuracy monitor summary data that are categorized as critical review items.

3.17.2 Report Outputs

3.17.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM CR P & A MONITOR SUMMARY				
Aug. 3, 2005				
AIRS Monitor Id	Screening Group Name	Prec Stdev	Time Period	Precision Year
Agency Desc				
01-109-0003-12128-1	ALABAMA	72.7856	Q1	2002
Al Dept Of Env Mgt				

3.17.2.2 Workfile Format

Not applicable for this report.

3.17.2.3 XML Format

Not applicable for this report.

3.17.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.18 Quality Assurance Report: Critical Review Precision and Accuracy Reporting Organization Report (G76)

3.18.1 Report Description

When data is updated to the AQS system, there are certain circumstances in which personnel at EPA headquarters would like to be made aware. These items include large percent differences for a reporting organization on a quarterly basis. Items that appear for review are called “Critical Review” elements. This report displays information about Precision and Accuracy Reporting Organization Summary data that are categorized as critical review items.

3.18.2 Report Outputs

3.18.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF AIR QUALITY CRITERIA STANDARDS

AUG. 3, 2005

Time period Parameter Desc	PREC DEPT	PREC STAD	PARAMETER CODE Agency Desc	AGENCY CODE
gl	1987	222.9	42101	1001
Carbon monoxide			state of louisiana	
gl	1987	48.7	42401	0013
ozone			Al Dept of Env Mgt	
gl	1987	33.9	42602	0148
nitrogen dioxide			California Air Resources Board	
gl	1987	1061.3	42601	0148
ozone			California Air Resources Board	
gl	1987	349.6	42601	0708
ozone			Mojave Desert AGO	
gl	1987	77.4	42601	0972
ozone			South Coast Air Quality Management District	
gl	1987	48.4	12128	0982
PM10 (TSP)			St Louis County Health Department Air Pollution Control	
gl	1987	123.2	42601	0437
ozone			Georgia Air Protection Branch Ambient Monitoring Program	
gl	1988	86.8	12128	0810
PM10 (TSP)			Calo EWA, Southwest District Office	
gl	1988	63.4	12128	0980
PM10 (TSP)			St Louis City Division of Air Pollution Control	
gl	1988	174.8	42601	0104
ozone			Moine Cascade Company	
gl	1988	40.9	42601	0836
ozone			Sacramento County APCD	
gl	1988	1622.6	42601	1118
ozone			Ventura County APCD	
gl	1988	96.8	42602	0148
nitrogen dioxide			California Air Resources Board	
gl	1988	43	42602	0708
nitrogen dioxide			Mojave Desert AGO	

Page 1 of 7

3.18.2.2 Workfile Format

Not applicable for this report.

3.18.2.3 XML Format

Not applicable for this report.

3.18.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.19 Quality Assurance Report: Critical Review Precision & Accuracy Single Checks (G71)

3.19.1 Report Description

When data is updated to the AQS system, there are certain circumstances in which personnel at EPA headquarters would like to be made aware. These items include large percent differences for precision and accuracy values. Items that appear for review are called “Critical Review” elements. This report displays information about precision and accuracy data that are categorized as critical review items.

3.19.2 Report Outputs

3.19.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY									
AIR QUALITY SYSTEM									
CRITICAL REVIEW DATA									
AUG. 3, 2005									
FILE#	STATION#	DATE	TIME	ANALYST	DATA TYPE	ANALYST	COLLECTOR	CREATOR	DATE
01	000000	04	100	00-000-0000-0	ACCURACY_SINGLE	1	0000/00/00		

3.19.2.2 Workfile Format

Not applicable for this report.

3.19.2.3 XML Format

Not applicable for this report.

3.19.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.20 Quality Assurance Report: Critical Review Raw Data (G74)

3.20.1 Report Description

When data is updated to the AQS system, there are certain circumstances in which personnel at EPA headquarters would like to be made aware. These items include changes to “certified” data, changes to values that are greater than the National Ambient Air Quality Standards, new data that is significantly higher than the 3-year historical maximum for the monitor, or values that are greater than a pre-defined threshold. Items that appear for review are called “Critical Review” elements. This report displays information about raw data records that are categorized as critical review items. The report is presented in two parts. Part one displays critical review conditions that affect a single data point (“Value Exceeds the 3-Year Historical Maximum” for example). Part two displays a count of the number of data points submitted by a monitor for a year that has been certified.

It is important to note that this report differs from most reports with respect to the meaning of the date selection elements. In most reports, this date selection pertains to the date on which data was collected. For this report, the date selection refers to the date that the record was changed.

3.20.2 Report Outputs

3.20.2.1 Formatted Report

3.20.2.1.1 Part I – Single Point Critical Review Errors Format

CRITICAL REVIEW REPORT - RAW DATA									
Aug 4, 2005									
PART 1:									
quarterly values > historical max / 1st max quarterly value > 2nd max quarterly value / values > range									
Screening Group name: Jefferson Co, AL 2									
monitor id	scrn Type	update date	ACTION ind	Critical review Type	unit	sample value	sample date/time	Comp value	Comp date/time
81-075-0025-99181-2	STATUS	20050128	1	1st max >> 2nd max for year	ug/m3 a	35.9	20041117 00:00	12.9	20041111 00:00
81-075-1008-91182-1	STATUS	20050128	1	1st max >> 2nd max for year	ug/m3 a	41	20041117 00:00	13	20041129 00:00
81-075-2005-99181-2	STATUS	20050128	1	1st max >> 2nd max for year	ug/m3 a	35.3	20041117 00:00	15.9	20041125 00:00

3.20.2.1.2 Part II – Data Submitted for Certified Year Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CERTICAL REPORT REPORT – SAM DATA

Aug 4, 2005

PART II:

Data submitted for Certified year

Screening Group Name: ASAMON

Monitor ID	Mon. Type	Certified year	Update date	Action ind	Number of records with Action
81-093-0018-00181-1	CTAEN	2004	20050618	u	40
81-013-0032-00181-1	CTAEN	2004	20050618	u	50
81-093-0032-00181-1	SLASH	2004	20050618	u	31
81-093-0033-00181-1	SLASH	2004	20050618	u	50
81-093-0033-00181-2	CTAEN	2004	20050618	u	21
81-093-0016-01182-3	CTAEN	1999	20030614	u	3
81-093-0016-01182-3	CTAEN	2008	20030614	u	3
81-093-2005-44281-1	SLASH	2008	20020702	u	4
81-093-2005-00181-1	CTAEN	2004	20050618	u	21
81-101-1002-01182-1	SPICIAL PUNCSH	1995	20020924	u	3
81-101-1002-01182-1	SPICIAL PUNCSH	1994	20020924	u	3
81-101-1002-01182-1	SPICIAL PUNCSH	1995	20020924	u	3
81-101-1002-01182-1	SPICIAL PUNCSH	1996	20020924	u	3
81-101-1002-01182-1	SPICIAL PUNCSH	1997	20020924	u	3
81-101-1002-01182-1	SPICIAL PUNCSH	1998	20020924	u	3
81-101-1002-01182-1	SPICIAL PUNCSH	1999	20020924	u	3
81-101-1002-01182-1	SPICIAL PUNCSH	2000	20020924	u	3
81-113-0031-00181-1	SLASH	2002	20050203	u	5
81-113-0033-01182-1		1994	20021204	u	3
81-123-0032-01182-1		2008	20020716	u	3

3.20.2.2 Workfile Format

Not applicable for this report.

3.20.2.3 XML Format

Not applicable for this report.

3.20.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.21 Quality Assurance Report: Critical Review Site Changes (G72)

3.21.1 Report Description

When data is updated to the AQS system, there are certain circumstances in which personnel at EPA headquarters would like to be made aware. These items include descriptive information at the site level that defines siting criteria. Items that appear for review are called “Critical Review” elements. This report displays information about changes to site descriptive information that are categorized as critical review items.

It is important to note that this report differs from most reports with respect to the meaning of the date selection elements. In most reports, this date selection pertains to the date on which data was collected. For this report, the date selection refers to the date that the record was changed.

3.21.2 Report Outputs

3.21.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
SITE CHANGE CRITICAL REVIEW REPORT

AUG. 4, 2005

EPA REGION: 04 ATLANTA

SITE ID	COLUMN NAME	CURRENT VALUE	OLD VALUE	UPDATE DATE
01-027-0001	URBAN AREA	0450 AUBURN, AL	0000 NOT IN AN URBAN AREA	2002/07/30
01-051-0001	URBAN AREA	5240 MONTGOMERY, AL	0000 NOT IN AN URBAN AREA	2002/07/30
01-097-0005	URBAN AREA	5160 MOBILE, AL	0000 NOT IN AN URBAN AREA	2002/07/23
01-101-1002	TRAFFIC FLOW	17220 (1990 DICKENSON DR.)	21000 (1990 DICKENSON DR.)	2002/05/21

3.21.2.2 Workfile Format

Not applicable for this report.

3.21.2.3 XML Format

Not applicable for this report.

3.21.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.22 Quality Assurance Report: Extract P/A Data (AMP502)

3.22.1 Report Description

The Extract P/A Data converts production Precision and Accuracy data into the AQS pipe-delimited data input format. This program will generate “RA” (Accuracy data) and / or “RP” (Precision data) transactions. There is no formatted report associated with AMP502.

3.22.2 Report Outputs

3.22.2.1 Formatted Report

Not applicable for this report.

3.22.2.2 Workfile Format

The workfile records are consistent with the data input format for the precision and accuracy data. Please refer to the Batch Input Transaction layouts for further discussion of these formats.

3.22.2.3 XML Format

Not applicable for this report.

3.22.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
ACTION INDICATOR	INSERT	You may set what “Action Indicator” is applied to the extracted transactions. <ul style="list-style-type: none">• Insert• Update• Delete
PRECISION AND ACCURACY TRANSACTIONS	<ul style="list-style-type: none">• Precision Data• Accuracy Data	You may optionally choose to generate just precision data, just accuracy data, or both.

3.23 Quality Assurance Report: Precision & Accuracy Raw Data Report (AMP250)

3.23.1 Report Description

The Precision & Accuracy Raw Data Report displays pairs of audit data that have been reported to the system. In addition to the data values, descriptive information about the site is provided as well. You may choose to generate only precision data, only accuracy data, or display both types of data.

3.23.2 Report Outputs

3.23.2.1 Formatted Report

```
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SUBSYSTEM
P/A RAW DATA REPORT

Jul. 15, 2005

North Carolina

Site: 37-035-0004 Urban Area: HICKORY, NC Latitude: 35.728889
County: Catawba Land Use: INDUSTRIAL Longitude: -81.365556
City: Hickory Location Setting: SUBURBAN UTM Zone: 17
AQCR: EASTERN MOUNTAIN Vertical Meas: 333.0 UTM Northing: 3953741
Address: 1650 1ST STREET UTM Easting: 466940
Site Comments: DUKE POWER ELECTRIC METER NO 72056943
Reporting Organization: 0776 North Carolina Dept Of Environment And Natural Resources
Monitor ID: 37-035-0004-88101-3 Parameter: 88101 PM2.5 - Local Conditions

***** PRECISION DATA *****
Duration: 1 HOUR Actual Method: 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C Units: Liters/minute STP
Date Prec ID Actual Indicated Indicated Method
20040102 1 2.750 3.000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040106 1 2.920 3.000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040120 1 2.9200 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040202 1 2.9900 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040216 1 2.9700 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040301 1 2.9900 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040311 1 3.0500 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040325 1 2.9500 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040329 1 2.9000 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040407 1 2.9600 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040416 1 2.970 3.000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040427 1 2.9200 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040506 1 2.9600 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040519 1 2.9400 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040524 1 2.9200 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040603 1 2.9600 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040614 1 2.9900 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C
20040626 1 2.9900 3.0000 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C

***** ACCURACY DATA *****
Duration: 1 HOUR Method: 702 PM2.5 SCC w/Correction Factor\TEOM Gravimetric 50 deg C Units: Liters/minute STP
Audit Type: AUDIT AND CERT BY SO Audit Class: FLOW Acc Type: FE LPS: CHIMCOCK PFS
Date ID Zero Span Rep Rep Actual Indicated Actual Indicated Actual Indicated Actual Indicated
20040224 1 2004 1 2.9900 3.0000
20040511 1 2004 2 2.9700 3.0000
```

3.23.2.2 Workfile Format

Not applicable for this report

3.23.2.3 XML Format

Not applicable for this report

3.23.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
P/A DATA TYPE	PRECISION AND ACCURACY DATA	You may choose what types of data is returned in the report. You may choose any of the following: <ul style="list-style-type: none">• Precision Data Only• Accuracy Data Only• Precision and Accuracy Data

3.24 Quality Assurance Report: P&A Reporting Organization Summary (AMP240)

3.24.1 Report Description

The Precision & Accuracy Reporting Organization Summary displays yearly summarized statistics for precision and accuracy data that has been reported for a given reporting organization for a specified parameter, audit classification, and year and quarter.

3.24.2 Report Outputs

3.24.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SUBSYSTEM
P/A REPORTING ORG SUMMARY

Jul. 15, 2005

REPORT ORG: 0403 Forsyth County Environmental Affairs Department

AGENCY TYPE: G

PARAMETER		***** PRECISION DATA *****										***** ACCURACY DATA *****							
CODE	DESCRIPTION	YEAR	Q	# OF ANALYZERS	PRECIS CHECKS	PRECIS LO	PRECIS UP	LOC PRI STD	ACC TYPE	AUDIT TYPE	NO AUDITS L1-3	NO AUDITS L4	PROB LIM LO-L1-UP	PROB LIM LO-L2-UP	PROB LIM LO-L3-UP	PROB LIM LO-L4-UP			
42101	Carbon monoxide	2004		2	542	- 3.5	1.7	EMSL	PE	AUDIT ONLY	18	0	- 1.0	2.5 - 3.2	2.7 - 4.4	5.3			
CONTINUOUS								REFERENCE GAS		BY RO									
ANALYTICAL				1	2	179	- 3.7	2.2	EMSL	PE	AUDIT ONLY	6	0	0.0	0.0 - 3.8	0.2 - 4.3	0.6		
								REFERENCE GAS		BY RO									
				2	2	181	- 3.6	1.6	EMSL	PE	AUDIT ONLY	6	0	- 1.2	2.5 - 1.2	2.5 - 1.5	4.6		
								REFERENCE GAS		BY RO									
				3	2	182	- 2.5	0.8	EMSL	PE	AUDIT ONLY	6	0	0.7	2.6	0.7	0.7 - 0.2	4.7	
								REFERENCE GAS		BY RO									

PARAMETER		***** PRECISION DATA *****										***** ACCURACY DATA *****							
CODE	DESCRIPTION	YEAR	Q	# OF ANALYZERS	PRECIS CHECKS	PRECIS LO	PRECIS UP	LOC PRI STD	ACC TYPE	AUDIT TYPE	NO AUDITS L1-3	NO AUDITS L4	PROB LIM LO-L1-UP	PROB LIM LO-L2-UP	PROB LIM LO-L3-UP	PROB LIM LO-L4-UP			
42401	Sulfur dioxide	2004		1	21	- 7.9	9.9	EMSL	PE	AUDIT ONLY	9	0	- 3.7	0.7 - 6.3	1.7 -10.2	0.6			
CONTINUOUS								REFERENCE GAS		BY RO									
ANALYTICAL				1	1	7	0.3	8.7	PE	AUDIT ONLY	3	0							
								REFERENCE GAS		BY RO									
				2	1	6	-10.5	6.1	PE	AUDIT ONLY	3	0	- 2.7	2.7 - 4.7	4.7 -12.0	0.3			
								REFERENCE GAS		BY RO									
				3	1	8	- 8.6	9.1	PE	AUDIT ONLY	3	0							
								REFERENCE GAS		BY RO									

3.24.2.2 Workfile Format

Not applicable for this report

3.24.2.3 XML Format

Not applicable for this report

3.24.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.25 Quality Assurance Report: Precision Report (AMP246)

3.25.1 Report Description

The Precision Report displays a daily listing reported precision data in a tabular format. The report displays the sample values entered into the system and then calculates a percent difference between the reported values, consistent with the requirements of OAQPS' Quality Assurance guidelines.

3.25.2 Report Outputs

3.25.2.1 Formatted Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY										
AIR QUALITY SYSTEM										
PRECISION REPORT										
Jul 1, 15, 2005										
SINGLE-MONITOR PRECISION CHECKS										
PARAMETER	STATE	AGENCY	MONITOR ID	DATE	PREC ID	ACTUAL	MEAS.	METH CODE	UNIT	%DIFF
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/01	1	9.000	8.800	054	PPM	-2.2
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/02	1	9.000	8.800	054	PPM	-2.2
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/03	1	9.000	8.800	054	PPM	-2.2
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/04	1	9.000	8.800	054	PPM	-2.2
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/05	1	9.000	8.800	054	PPM	-2.2
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/06	1	9.000	9.000	054	PPM	.0
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/07	1	9.000	9.200	054	PPM	2.2
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/08	1	9.000	9.100	054	PPM	1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/09	1	9.000	9.100	054	PPM	1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/10	1	9.000	9.100	054	PPM	1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/11	1	9.000	9.100	054	PPM	1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/12	1	9.000	9.100	054	PPM	1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/13	1	9.000	8.900	054	PPM	-1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/14	1	9.000	9.000	054	PPM	.0
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/15	1	9.000	9.000	054	PPM	.0
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/16	1	9.000	8.900	054	PPM	-1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/17	1	9.000	8.900	054	PPM	-1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/18	1	9.000	9.000	054	PPM	.0
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/19	1	9.000	9.000	054	PPM	.0
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/20	1	9.000	9.100	054	PPM	1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/21	1	9.000	9.100	054	PPM	1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/22	1	9.000	8.900	054	PPM	-1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/23	1	9.000	9.000	054	PPM	.0
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/24	1	9.000	8.900	054	PPM	-1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/25	1	9.000	9.100	054	PPM	1.1
Carbon monoxide	NC	Forsyth County Environmental	.37-067-0023-42101-1	2004/01/26	1	9.000	8.900	054	PPM	-1.1

3.25.2.2 Workfile Format

Not applicable for this report

3.25.2.3 XML Format

Not applicable for this report

3.25.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)

3.26 Raw Data Report: Data Completeness Report (AMP430)

3.26.1 Report Description

The Data Completeness Report generates a monthly count of the number of observations conducted by a monitor across a given time frame. It also calculates the percentage of the number of observations that are required within the month. The report does not provide concentration levels. It only provides an indication of the sampling activity of a monitor. A detail section as well as a summary section of the information that is selected is generated.

This report may only be run for data that exists within a single calendar year. Due to this restriction, you may only specify 1 time period on the R31, and that time period must be within the same calendar year.

3.26.2 Report Outputs

3.26.2.1 Formatted Report

3.26.2.1.1 Monitors Not Reporting Data Section

This portion of the report produces a list of the monitors that did not report any data for the selected time period, but are still defined as “active” based on their sample period information.

```
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
DATA COMPLETENESS REPORT

                                                                    Jul. 14, 2005

MONITORS NOT REPORTING

DATE RANGE:  JAN. 01, 2004 THRU DEC. 31, 2004
REGION:  (04) ATLANTA
STATE:  Alabama
REPORTING ORGANIZATION:  Jefferson County, AL  Department Of Health
MONITOR TYPE:  SLAMS

SITE ID      PARAMETER      POC CITY      ADDRESS
-----
01-073-0023  81102  PM10 Total 0-10um STP  1  Birmingham  NO. B*HAM,SOU R.R., 3009 28TH ST. NO.
01-073-0023  88101  PM2.5 - Local Conditions 7  Birmingham  NO. B*HAM,SOU R.R., 3009 28TH ST. NO.
```

3.26.2.1.2 Monitors Reporting Data Section



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
DATA COMPLETENESS REPORT

Jul. 14, 2005

MONITORS REPORTING

DATE RANGE: JAN. 01, 2004 THRU DEC. 31, 2004
REGION: (04) ATLANTA
STATE: Alabama

REPORTING ORGANIZATION: Al Dept Of Env Mgt
MONITOR TYPE: SLAMS

SITE ID CITY ADDRESS	PARAMETER	DOC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
01-027-0001	88101 PM2.5 - Local Conditions	1	7	11	9	10	10	9	9	10	7	9	10	10	10	114
Not in a city			118	100%	100%	91%	100%	90%	90%	100%	64%	90%	100%	100%	100%	93%
ROUTE 1, BOX 351A, ASHLAND, AL																
01-033-1002	88101 PM2.5 - Local Conditions	1	7	11	9	10	10	10	10	9	10	10	10	7	9	114
Muscle Shoals			118	100%	100%	91%	100%	100%	100%	90%	91%	100%	100%	70%	90%	93%
WILSON DAM RD AND 2ND ST.																
01-051-0001	44201 Ozone	1	1			707	682	709	685	647	710	625	707			5472
Wetumpka			047			95%	95%	95%	95%	87%	95%	87%	95%			93%
DENBERRY TRAIL, ELMORE CO., WETUMPKA, ALABAMA																
01-069-0002	88101 PM2.5 - Local Conditions	1	7	11	4	5	10	10	10	9	11					70
Dothan			118	100%	44%	45%	100%	100%	100%	90%	100%					85%
EAST HIGHLAND ST., BOARD OF ED. BLDG.																
01-097-0002	88101 PM2.5 - Local Conditions	1	7	11	9	11	9	7	2	10	10	9	10	7	10	105
Chickasaw			120	100%	100%	100%	90%	70%	20%	100%	91%	90%	100%	70%	100%	86%
HWY.43 CHICKASAW, MOBILE COUNTY																
01-097-0003	88101 PM2.5 - Local Conditions	1	7	9	9	11	9	10	10	10	11	9	10	10	10	117
Chickasaw			118	92%	100%	100%	80%	100%	100%	100%	100%	90%	100%	100%	100%	96%
IROQUOIS AND ASALEA CHICKASAW, MOBILE CO., ALABAMA																
01-097-2005	44201 Ozone	1	1			710	689	653	686	710	711	509	706			5374
Theodore			047			95%	96%	88%	95%	95%	96%	71%	95%			91%
BAY RD., MOBILE AL.																
01-101-0007	88101 PM2.5 - Local Conditions	1	7	11	9	11	10	10	7	10	11	10	9	10	10	118
Montgomery			118	100%	100%	100%	100%	100%	70%	100%	100%	100%	90%	100%	100%	97%
MTG. RESURRECTION 2815 FORBES DRIVE																
01-101-1002	44201 Ozone	1	1			706	683	701	687	701	709	636	691			5514
Montgomery			047			95%	95%	94%	95%	94%	95%	88%	93%			94%
1890 DICKENSON DRIVE, MONTGOMERY, ALABAMA																
01-103-0011	88101 PM2.5 - Local Conditions	1	7	11	9	11	10	10	9	9	11	10	9	10	10	119
Decatur			118	100%	100%	100%	100%	100%	90%	90%	100%	100%	90%	100%	100%	98%
P.O. BOX 2224 WALLACE DEVELOPMENT CENTER. DECATUR, ALABAMA																

3.26.2.1.3 Report Summary Section



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
DATA COMPLETENESS REPORT

Jul. 14, 2005

REPORT SUMMARY

DATE RANGE: JAN. 01, 2004 THRU DEC. 31, 2004

REGION: (04) ATLANTA

STATE: Alabama

REPORTING ORGANIZATION: Al Dept Of Env Mgt

MONITOR TYPE: NAMS

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
44201 Ozone	1	0	1	99.9%
MT SUMMARY: NAMS	1	0	1	99.9%

MONITOR TYPE: SLAMS

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
12120 Lead (TSP)	2	0	2	100.0%
44201 Ozone	5	0	5	92.0%
98101 PM2.5 - Local Conditions	13	0	13	94.1%
MT SUMMARY: SLAMS	20	0	20	94.1%

MONITOR TYPE: OTHER

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
11101 Suspended particulate (TSP)	3	0	3	95.1%
12120 Lead (TSP)	1	0	1	100.0%
44201 Ozone	8	0	8	93.3%
81102 PM10 Total 0-10um STP	4	0	4	87.5%
98101 PM2.5 - Local Conditions	10	0	10	91.2%
MT SUMMARY: OTHER	26	0	26	92.1%

MONITOR TYPE: SPECIAL PURPOSE

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
42401 Sulfur dioxide	1	0	1	97.4%
44201 Ozone	1	0	1	92.8%
81102 PM10 Total 0-10um STP	11	0	11	89.7%
98101 PM2.5 - Local Conditions	1	0	0	71.0%
MT SUMMARY: SPECIAL PURPOSE	14	0	13	89.1%
RO SUMMARY: Al Dept Of Env Mgt	61	0	60	92.1%

Page 21 of 25

3.26.2.2 Workfile Format

The Data Completeness Report generates two separate formats:

- Monitor Details
- Report Summary

Both workfiles are comma-delimited, with the text strings enclosed in double quotes.

The formats of each format are listed below

3.26.2.2.1 Monitor Details Format

Order of Appearance	Column Name
1	Monitor Type
2	Site ID
3	Parameter Code
4	POC
5	EPA Region
6	Reporting Organization Description
7	City
Order of Appearance	Column Name

8	Address
9	Method Code
10	Duration Code
11	Not Reporting Indicator (“Y” means no data collected for the monitor)
12	January Number of Observations
13	January Observation Percentage
14	February Number of Observations
15	February Observation Percentage
16	March Number of Observations
17	March Observation Percentage
18	April Number of Observations
19	April Observation Percentage
20	May Number of Observations
21	May Observation Percentage
22	June Number of Observations
23	June Observation Percentage
24	July Number of Observations
25	July Observation Percentage
26	August Number of Observations
27	August Observation Percentage
28	September Number of Observations
29	September Observation Percentage
30	October Number of Observations
31	October Observation Percentage
32	November Number of Observations
33	November Observation Percentage
34	December Number of Observations
35	December Observation Percentage
36	Number of Observations for the Year
37	Observation Percentage for the Year

3.26.2.2.2 Summary Report Format

Order of Appearance	Column Name
1	EPA Region
2	State
3	Reporting Organization Name
4	Monitor Type
5	Parameter Code
6	Number of Monitors
7	Average Completeness
8	Number Not Reporting

3.26.2.3 XML Format

Not applicable for this report.

3.26.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
OZONE EVALUATION	SEASONAL-HOURLY	Choose the basis on which the completeness for ozone is based: <ul style="list-style-type: none">• Seasonal-Hourly = All Hourly values within the Ozone season• Seasonal-Daily = Number of valid days within the Ozone season• Annual-Hourly = All values for the entire year• Annual-Daily = Number of valid days for the entire year

3.27 Raw Data Report: Extract Raw Data (AMP501)

3.27.1 Report Description

The Extract Raw Data converts production raw and composite sample data into the AQS pipe-delimited data input format and / or defined XML input schema. This program will generate “RC” (Composite data) and / or “RD” (Raw data) transactions. There is no formatted report associated with AMP501.

3.27.2 Report Outputs

3.27.2.1 Formatted Report

Not applicable for this report.

3.27.2.2 Workfile Format

The workfile records are consistent with the data input format for the raw and composite sample data. Please refer to the Batch Input Transaction layouts for further discussion of these formats.

3.27.2.3 XML Format

The XML Format of this report is consistent with the Air Quality Submission schema. The schema definition can be found at <http://www.exchangenetwork.net/exchanges/air/aqs.htm>. The selection of the “Action Indicator” in the report options (see the following section on choices of options for the report) will determine whether the “Insert”, “Update”, or “Delete” schema will be used.

3.27.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
ACTION INDICATOR	INSERT	You may set what “Action Indicator” is applied to the extracted transactions. <ul style="list-style-type: none">• Insert• Update• Delete

3.28 Raw Data Report: Extract Sample Blanks Data (AMP503)

3.28.1 Report Description

The Extract Sample Blanks Data converts production blanks sample data into the AQS pipe-delimited data input format and / or defined XML input schema. This program will generate “RB” (Blanks data) transactions. There is no formatted report associated with AMP503.

3.28.2 Report Outputs

3.28.2.1 Formatted Report

Not applicable for this report.

3.28.2.2 Workfile Format

The workfile records are consistent with the data input format for blanks sample data. Please refer to the Batch Input Transaction layouts for further discussion of these formats.

3.28.2.3 XML Format

The XML Format of this report is consistent with the Air Quality Submission schema. The schema definition can be found at <http://www.exchangenetwork.net/exchanges/air/aqs.htm>. The selection of the “Action Indicator” in the report options (see the following section on choices of options for the report) will determine whether the “Insert”, “Update”, or “Delete” schema will be used.

3.28.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
ACTION INDICATOR	INSERT	You may set what “Action Indicator” is applied to the extracted transactions. <ul style="list-style-type: none">• Insert• Update• Delete
BLANK TYPES	TRIP AND FIELD BLANKS	You may select the type of field blanks data included in the report: <ul style="list-style-type: none">• Trip data only• Field data only• Trip & Field data

3.29 Raw Data Report: Raw Data Reports (AMP350, AMP350MX, AMP350NW, AMP350P)

3.29.1 Report Description

The Raw Data Reports lists ambient air quality samples that are stored in AQS. These samples may consists of the reported values, generated data (such as the running averages), or daily summaries. The raw data reports have 3 distinct formats in which the data may be displayed:

- **Hourly Format:** A matrix format used to display data for values that have a duration of less than 24 hours. The rows consist of days within the month (between 1 and 31) and the columns consist of hours within the day (00 – 23). One page of the report represents one month worth of data for a monitor. Either a maximum or average summary of each row in the matrix is provided. Each column has a summary for the number of observations, the maximum observation, and the average sample value. The number of observations, maximum value, and average value is also calculated for the month.
- **Daily Format:** A matrix format used to display data for values that have a duration of 24 hours. The rows consist of days with the month (between 1 and 31) and the columns consist of months within the year. One page of the report represents one year of data for a monitor.
- **Other Format:** This is tabular format used to display data that has a duration of greater than 24 hours. A new page is generated for each break in the year and / or monitor.

Although the formats of the four listed reports are the same, their purposes and content vary slightly. Below is a description of each of the 4 reports.

AMP350: The AMP350 report displays production-level sample data reported to the AQS database. This report may use any of the three described formats.

AMP350P: The AMP350P report displays pre-production-level sample data reported to the AQS database. This report may use any of the three described formats. This report will only appear in the list of reports if you selected a screening group at the beginning of the session.

AMP350MX: The AMP350MX report displays daily maximum summaries of data reported to or generated by the AQS database. This report only uses the “Daily” report format.

AMP350NW: The AMP350NW report displays the generated durations (8-hour running averages, 3-hour block averages, and 24-hour block averages) from data reported to the AQS database. This report only uses the “Hourly” report format.

3.29.2 Report Outputs

3.29.2.1 Formatted Report

3.29.2.1.1 Hourly Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY																													
AIR QUALITY SYSTEM																													
RUN DATA REPORT																													
(44241) Census															Feb. 15, 2005														
SITE ID: 37-143-0014 POC: 1															GAS NUMBER: 10028-13-5														
COUNTY: (183) Wake															STATE: (37) North Carolina														
CITY: (35000) Raleigh															AGENCY: (144) EASTERN PIEDMONT														
SITE ADDRESS: 3891 HERRING FOREST RD., RALEIGH NC															UNABRIDGED AREA: (6429) RALEIGH, NC														
SITE COMMENTS: CINCINNATI POWER ELECTRIC WATER CO. 2 CONCRETE PILES															LAND USE: RESIDENTIAL														
WORKING COMMENTS:															LOCATION SETTING: STREAM														
REPORT & ORIGIN: (3774) North Carolina Dept. Of Environment And Natural Resource																													
REPORT TYPE: Multiple Monitor Type																													
COLLECTION AND ANALYSIS METHOD: (047) ENVIRONMENTAL DATA VIOLAT																													
REPORTING ORG: (3774) North Carolina Dept. Of Environment And Natural Resource																													
REPORT FOR: APRIL 2004																													
DURATION: 1 YEAR																													
UNIT: PPB																													
NEW DETECTABLE: .005																													
NOISE																													
DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000	NO. DATA			
1	.036	.021	.017	ND	.022	.019	.011	.001	.001	.014	.020	.023	.023	.022	.028	.036	.036	.035	.029	.023	.024	.027	.018	.029	23	.056			
2	.009	.025	.032	ND	.027	.021	.014	.016	.021	.026	.027	.029	.028	.026	.034	.036	.038	.028	.027	.027	.028	.024	.024	.024	23	.056			
3	.022	.022	.021	ND	.024	.018	.011	.014	.023	.026	.030	.022	.026	.028	.026	.034	.024	.028	.027	.012	.026	.042	.022	.022	23	.056			
4	.002	.002	.002	ND	.020	.027	.027	.041	.046	.044	.044	.043	.044	.044	.043	.043	.042	.042	.040	.040	.040	.041	.045	.040	23	.046			
5	.009	.028	.038	ND	.028	.014	.008	.026	.039	.042	.044	.047	.049	.022	.020	.021	.021	.047	.042	.040	.044	.045	.042	.042	23	.052			
6	.008	.024	.032	ND	.014	.002	.002	.025	.035	.041	.044	.045	.045	.047	.020	.045	.044	.041	.027	.025	.026	.042	.027	.027	23	.058			
7	.008	.022	.022	ND	.022	.002	.002	.002	.022	.028	.046	.053	.057	.069	.041	.041	.059	.028	.029	.027	.022	.029	.028	.013	23	.041			
8	.001	.022	.039	ND	.027	.016	.012	.014	.028	.028	.048	.060	.069	.069	.047	.070	.061	.029	.023	.047	.027	.023	.026	.027	23	.079			
9	.042	.045	.040	ND	.036	.029	.024	.023	.049	.044	.050	.056	.065	.064	.046	.066	.066	.069	.069	.030	.022	.021	.022	.029	23	.086			
10	.019	.029	.024	ND	.034	.025	.028	.039	.042	.049	.022	.024	.029	.022	.045	.061	.059	.027	.022	.049	.047	.029	.026	.029	23	.065			
11	.024	.027	.024	ND	.028	.028	.024	.027	.029	.028	.032	.039	.039	.028	.022	.047	.045	.045	.042	.044	.040	.029	.019	.018	23	.053			
12	.026	.016	.016	ND	.026	.026	.026	ND	ND	.028	ND	.033	.024	.022	.021	.030	.025	.017	.012	.019	.023	.024	.028	.030	23	.054			
13	.008	.027	.026	ND	.028	.026	.020	.015	.016	.009	.006	.018	.021	.029	.020	.034	.027	.026	.024	.028	.022	.022	.034	.036	23	.057			
14	.009	.029	.032	ND	.028	.019	.013	.011	.012	.016	.008	.006	.005	.022	.002	.002	.002	.019	.018	.022	.028	.029	.029	.030	23	.052			
15	.009	.028	.032	ND	.029	.026	.027	.022	.034	.042	.047	.050	.055	.028	.027	.039	.039	.028	.027	.022	.027	.022	.022	.026	23	.059			
16	.003	.002	.009	ND	.022	.002	.002	.006	.019	.026	.049	.050	.055	.029	.042	.038	.035	.047	.022	.014	.012	.009	.029	.029	23	.062			
17	.002	.027	.020	ND	.024	.019	.018	.022	.035	.049	.050	.060	.069	.074	.074	.071	.069	.064	.064	.054	.042	.049	.022	.020	23	.074			
18	.047	.045	.041	ND	.034	.024	.022	.043	.039	.024	.042	.070	.076	.077	.078	.073	.073	.076	.068	.061	.060	.029	.024	.021	23	.077			
19	.049	.046	.042	ND	.037	.024	.019	.027	.044	.028	.026	.061	.065	.069	.047	.067	.064	.062	.052	.037	.020	.026	.024	.020	23	.069			
20	.049	.048	.043	ND	.026	.006	.004	.015	.029	.045	.028	.061	.066	.069	.071	.069	.069	.052	.028	.017	.017	.026	.026	.026	23	.071			
21	.024	.024	.026	ND	.022	.019	.010	.008	.022	.026	.045	.060	.061	.069	.043	.063	.061	.069	.024	.049	.027	.026	.026	.022	23	.063			
22	.049	.045	.041	ND	.035	.029	.018	.024	.035	.049	.049	.055	.059	.029	.040	.061	.065	.069	.023	.044	.041	.029	.028	.021	23	.061			
23	.029	.028	.024	ND	.016	.011	ND	ND	ND	.041	.050	.057	.062	.069	.062	.063	.059	.028	.044	.016	.027	.022	.029	.024	23	.063			
24	.002	.026	.027	ND	.026	.022	.017	.029	.035	.042	.046	.068	.079	.028	.024	.032	.034	.021	.044	.043	.042	.042	.042	.039	23	.056			
25	.009	.049	.040	ND	.042	.042	.039	.027	.036	.027	.038	.039	.029	.041	.044	.047	.049	.042	.028	.033	.024	.029	.029	.029	23	.049			
26	.027	.026	.028	ND	.019	.009	.007	.012	.013	.018	.030	.035	.021	.026	.026	.024	.023	.027	.022	.024	.022	.049	.049	.036	23	.049			
27	.008	.027	.019	ND	.016	.019	.013	.023	.035	.045	.049	.052	.055	.028	.024	.048	.049	.021	.020	.049	.047	.049	.044	.039	23	.053			
28	.002	.026	.024	ND	.022	.008	.002	.018	.039	.045	.042	.045	.059	.021	.022	.049	.059	.022	.041	.019	.021	.022	.024	.036	23	.052			
29	.004	.024	.026	ND	.014	.002	.012	.012	.023	.044	.028	.039	.046	.029	.027	.032	.022	.027	.041	.041	.043	.041	.043	.039	23	.056			
30	.004	.022	.024	ND	.009	.002	.006	.014	.026	.042	.049	.052	.053	.028	.028	.026	.026	.026	.044	.021	.028	.028	.027	.026	23	.058			
31																									0				
NO.	28	30	30	30	38	30	29	28	28	28	29	28	34	28	30	30	30	38	28	30	30	30	30	30	30				
NO.	.049	.049	.049	.049	.042	.042	.039	.043	.038	.048	.043	.070	.076	.077	.078	.073	.073	.076	.068	.061	.060	.029	.028	.021					
NO.	.0096	.0096	.0096	.0096	.0243	.0188	.0189	.0212	.0293	.0389	.0422	.0488	.0497	.0521	.0528	.0511	.0498	.0479	.0407	.0302	.0299	.0289	.0314	.0316					
MONTHLY QUALIFIER: 684 MONTHLY MEAN: .0387 MONTHLY MED.: .077																													
Notes: Qualifier 684 with regional concentration are shown in upper row, and those without regional concentration are shown in lower row. An asterisk (*) indicates that the region has exceeded the value and does not meet with the qualifier.																													

3.29.2.1.2 Daily Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Feb. 18, 2008

(11182) END: Total O-Ison HSP

SITE ID: 37-183-0014 FOC: 4

COUNTY: (183) Wake

CITY: (38000) Raleigh

SITE ADDRESS: 2881 SPRING FOREST RD., RALEIGH NC

SITE COMMENTS: CAROLINA POWER ELECTRIC METER NO. A C081819018

MONITOR COMMENTS:

STATE: (37) North Carolina

AQCP: (183) EASTERN PIEDMONT

UTM ZONE: 17

UTM EASTING: 2970086

UTM NORTHING: 719087

ELEVATION-MSL: 8

PHONE HEIGHT: 3

REPORT FOR: 2004

DURATION: 14 HOURS

DATA: DAY/OF METER (15 C)

MIN DETECTABLE: 4

MONITOR TYPE: FLAME

COLLECTION AND ANALYSIS METHOD: (042) SI-VOL-MEETING-101ST GRAVIMETRIC

PERFORMING ORG: (0176) North Carolina Dept Of Environment And Natural Resource

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1												
2												
3		13		9								
4	16		10									
5												
6												
7												
8												
9		28		20								
10	16		14									
11		22										
12												
13												
14												
15												
16	9	19	17	16								
17												
18												
19												
20												
21		10		20								
22	19		8									
23												
24												
25												
26												
27		14		21								
28	8		18									
29												
30												
31												
NO.	3	3	3	3	3	0	0	3	3	0	0	0
MAX.	19.	19.	22.	20.								
MIN.	15.6	14.6	17.8	23.2								
AVERAGE	20	AVERAGE	17.3	AVERAGE	20.							

Note: Qualifier codes with regional measurements are shown in upper case, and those without regional qualifiers are shown in lower case. An asterisk (*) indicates that the region has avoided the value and does not measure with the qualifier.

3.29.2.1.3 Other Format

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Feb. 18, 2008

(11183) AVERAGE (HSP)

SITE ID: 39-013-0013 FOC: 1

COUNTY: (013) Oklahoma

CITY: (27700) West Liverpool

SITE ADDRESS: 1150 GEORGE

SITE COMMENTS:

MONITOR COMMENTS: MTE METALS MONITORING, COLUMBIANA FORT AUTHORITY

STATE: (39) Ohio

AQCP: (181) STEUBENVILLE-WEINTON-MEASURING

UTM ZONE: 17

UTM EASTING: 4497924

UTM NORTHING: 588214

ELEVATION-MSL: 1

PHONE HEIGHT: 2

REPORT FOR: 2004

DURATION: COMPOSITE DATA

DATA: DAY/OF METER (15 C)

MIN DETECTABLE: .02

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (042) SI-VOL ATOMIC ABSORPTION

PERFORMING ORG: (0784) North Ohio Valley Air Authority

SAMPLE PERIOD	VALUE	EX DATA	NUMBER SAMPLES
1	.61		3
2	.61		3
3	.61		3
4	.61		4
5	.61		3
6	.61		3
7	.61		3
8	.61		6
9	.61		4
10	.61		4
11	.61		3
12	.61		3

Note: Qualifier codes with regional measurements are shown in upper case, and those without regional qualifiers are shown in lower case. An asterisk (*) indicates that the region has avoided the value and does not measure with the qualifier.

3.29.2.2 Workfile Format

There are four workfile formats that are generated from the raw data report: Site format, Raw Data Format, NAAQS Averages Format, and Other format. All formats are “pipe-delimited” (“|”).

3.29.2.2.1 Site Format

This format is used by all of the reports to provide information about the monitoring site.

Order of Appearance	Column Name
1	Data Type: “1” = SITE Information
2	State Code
3	State Name
4	County Code
5	County Name
6	Site ID
7	Parameter Code
8	Parameter Description
9	POC
10	City Code
11	City Name
12	Street Address
13	AQCR Code
14	AQCR Name
15	MSA Code
16	MSA Name
17	CMSA Code
18	CMSA Name
19	EPA Region
20	Monitor Objective 1
21	Monitor Objective 2
22	Monitor Objective 3
23	Urbanized Area Code
24	Urbanized Area Name
25	Land Use
26	Location Setting
27	Latitude
28	Longitude
29	UTM Zone
30	UTM Northing
31	UTM Easting
32	Coordinate Horizontal Collection Method
33	Coordinate Horizontal Method
Order of Appearance	Column Name

34	Coordinate Horizontal Datum
35	Coordinate Horizontal Accuracy
36	Coordinate Horizontal Scale
37	Elevation Above Mean Sea Level (meters)
38	Coordinate Vertical Collection Method
39	Coordinate Vertical Method
40	Coordinate Vertical Datum
41	Coordinate Vertical Accuracy

3.29.2.2.2 *Raw Data Format*

This format may be used by AMP350, AMP350MX, and AMP350P.

Order of Appearance	Column Name	
1	Data Type: "2" = Raw Data	
2	State Code	
3	County Code	
4	Site ID	
5	Parameter Code	
6	POC	
7	Duration Code	
8	Method Code	
9	Units Code	
10	Minimum Detection Limit (MDL)	
11	Uncertainty	
12	Reported Collection Frequency	
13	Required Collection Frequency	
14	Reporting Organization Code	
15	Reporting Organization Name	
16	Sample Date (YYYYMMDD)	
17 - 64	Repeated 24 times. Once for each hour of the day. "x" represents the start hour of the sample	Value x
		Qualifier x

3.29.2.2.3 NAAQS Data Format

This format is used only by AMP350NW.

Order of Appearance	Column Name	
1	Data Type: “3” = NAAQS Data	
2	State Code	
3	County Code	
4	Site ID	
5	Parameter Code	
6	POC	
7	Duration Code	
8	Units Code	
9	Monitor Type	
10	Reporting Organization Code	
11	Reporting Organization Name	
12	Sample Date (YYYYMMDD)	
13 – 60	Repeated 24 times. Once for each hour of the day. “x” represents the start hour of the sample	Value x
		Qualifier x

3.29.2.2.4 Other Data Format

This format may be used by AMP350 and AMP350P.

Order of Appearance	Column Name
1	Data Type: “4” = OTHER Data
2	State Code
3	County Code
4	Site ID
5	Parameter Code
6	POC
7	Duration Code
8	Method Code
9	Units Code
10	Minimum Detection Limit (MDL)
11	Uncertainty
12	Required Collection Frequency
13	Reporting Organization Code
14	Reporting Organization Name

Order of Appearance	Column Name
15	Sample Date (YYYYMMDD)
16	Sample Value
17	Qualifier
18	Composite Type
19	Number of Samples in the Composite Sample

3.29.2.3 XML Format

Not applicable for this report.

3.29.3 Report Options

Option Name	Default Value	Description	Applies to
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)	AMP350, AMP350P, AMP350MX, AMP350NW
SINGLE EVENT PROCESSING	INCLUDE EVENTS	<p>The data is summarized multiple times in cases where exceptional or natural events exist in the dataset. The following options are available</p> <ul style="list-style-type: none"> • Include Events • Exclude Events • Exclude Exceptional Events • Exclude Natural Events • Exclude Regionally Concurred Events • Exclude Exceptional Events w/ Regional concurrence • Exclude Natural Events w/ Regional concurrence 	AMP350MX, AMP350NW
INCLUDE NULLS	YES	Option to include Null Data codes on the report. Valid values are “YES” and “NO”	AMP350, AMP350P

Option Name	Default Value	Description	Applies to
DAILY STATISTICS	MAXIMUM	Defines the row statistic to use on the “Hourly” format. Available values are “MAXIMUM”, “MEAN”	AMP350, AMP350P, AMP350NW
UNITS	STANDARD	Defines whether to show the data in the “Standard” or “Reported” units.	AMP350, AMP350P
RAW DATA EVENTS	INCLUDE EVENTS	Defines whether to include or exclude events from the data to include on the report.	AMP350, AMP350P
ALTERNATE STANDARDS	None defined	Allows the user to specify values to place a “P” or “S” next to values that exceed the defined “Primary” or “Secondary” values. Values must be defined on a parameter / duration basis. This option only works if the “UNITS” option is set to “STANDARD”	AMP350, AMP350P

3.30 Raw Data Report: Raw Data Workfile Parameter by Time

3.30.1 Report Description

The Raw Data Workfile Parameter by Time can only be generated as a workfile. The idea of the report is to produce a file that can compare values against either other values across time. If only 1 parameter is selected, the comparison by day is performed against other monitors that monitored data at the same time. If more than one parameter is selected, the comparison is performed against all the selected parameters that collected data at the same time and at the same site.

3.30.2 Report Outputs

3.30.2.1 Formatted Report

Not applicable for this report

3.30.2.2 Workfile Format

The generated workfile is a comma-delimited workfile. The order of the columns is dependant on what fields are selected. The format of the workfile is defined in the first row of the generated file.

3.30.2.3 XML Format

Not applicable for this report.

3.30.3 Report Options

Option Name	Default Value	Description
UNITS	STANDARD	Defines whether to show the data in the “Standard” or “Reported” units.
RAW DATA EVENTS	INCLUDE EVENTS	Defines whether to include or exclude events from the data to include on the report.
RAW DATA META COLUMNS	No columns selected	<p>The user may include any of the following columns to the workfile:</p> <ul style="list-style-type: none">• Site Latitude*• Site Longitude*• Elevation Above Mean Sea Level*• MSA Code and Description*• CMSA Code and Description*• Qualifier Flag• Method• MDL• Uncertainty• Trip Blanks• Trip Blank Method• Field Blanks• Field Blank Method <p>* - Values are only used if multiple parameters have been selected.</p>

3.31 Raw Data Report: Violation Day Count Report (AMP300)

3.31.1 Report Description

The Violation Day Count Report displays sample values that exceed the standard for criteria pollutants. A site summary is generated for each site and a yearly summary is generated for each pollutant-duration where a violation exists. There are 4 formats for this report:

- **Site Summary** – For each site with a violation, the report displays the day, value, the exceptional data type indicator, the number of primary violations and the number of secondary violations. A total count of the number of violating days, the number of primary violations, the number of secondary violations, and the number of valid days monitored are displayed for each site.
- **8-hour CO Site Summary** – This format is only generated for 8-hour Carbon Monoxide records. For each site with a violation, the report displays the day, value, the exceptional data type indicator, the hour when the maximum violation occurred and the number of non-overlapping averages with violations. A total count of the number of violating days, and the number of non-overlapping violations are displayed.
- **Area Summary** – For each unique area (either a State or a Tribal area), pollutant, duration, and year, the following information is displayed: date of violation, highest violating site for the day, the total number of sites with violations for the day, the concentration of the highest violation for the day, and the exceptional data type.
- **8-hour CO Area Summary** - For each unique area (either a State or a Tribal area), having 8-hour Carbon Monoxide violation within a year, the following information is displayed: date of violation, highest violating site for the day, the total number of sites with violations for the day, the concentration of the highest violation for the day, the exceptional data type, and the hour of the maximum violation.

3.31.2 Report Outputs

3.31.2.1 Formatted Report

3.31.2.1.1 Site Summary

```
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
VIOLATION DAY COUNT REPORT

Ozone (44201)
DPM (007)
8-HR RUN AVG BEGIN HOUR (W)
2004
California

MSA: (2840) Fresno, CA

SITE ID      POC  COUNTY NAME      DATE OF VIOLATION  MAXIMUM VIOLATION VALUE  EXCEPT DATA?  NUMBER OF PRIMARY VIOLATIONS  NUMBER OF SECONDARY VIOLATIONS
06-019-4001  1    Fresno          2004/06/04         .085 0              1              1
06-019-4001  1    Fresno          2004/06/04         .085 0              1              1
06-019-4001  1    Fresno          2004/06/16         .090 0              3              3
06-019-4001  1    Fresno          2004/06/16         .090 0              3              3
06-019-4001  1    Fresno          2004/08/09         .085 0              1              1
06-019-4001  1    Fresno          2004/08/09         .085 0              1              1
06-019-4001  1    Fresno          2004/08/11         .090 0              4              4
06-019-4001  1    Fresno          2004/08/11         .090 0              4              4
06-019-4001  1    Fresno          2004/08/30         .087 0              2              2
06-019-4001  1    Fresno          2004/08/30         .087 0              2              2

SUMMARY FOR SITE 06-019-4001 POC 1 YEAR 2004 MAXIMUM VIOLATION VALUE .090

VIOLATION DAYS 10
PRIMARY VIOLATIONS 22
SECONDARY VIOLATIONS 22
VALID DAYS MONITORED 121
```

3.31.2.1.2 8-Hour CO Site Summary

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY						
VIOLATION DAY COUNT REPORT						
Carbon monoxide (42101)						
PDM (007)						
8-HR RUN AVG END HOUR (Z)						
2004						
Indiana						
MSA: (3480) Indianapolis,IN						
Jul. 15, 2005						
SITE ID	POC	COUNTY NAME	DATE OF VIOLATION	MAXIMUM VIOLATION VALUE	EXCEPT DATA?	NON-OVERLAPPING VIOLATIONS
18-063-0001	1	Hendricks	2004/01/01	13.7	0	2
			2004/01/01	13.7	0	2
			2004/01/02	10.0	0	2
			2004/01/02	10.0	0	2
			2004/09/02	9.8	0	1
			2004/09/02	9.8	0	1
			2004/09/05	9.9	0	1
			2004/09/05	9.9	0	1
			2004/09/11	9.6	0	1
			2004/09/11	9.6	0	1
			2004/09/13	9.6	0	1
			2004/09/13	9.6	0	1
			2004/09/22	10.6	0	3
			2004/09/22	10.6	0	3
			2004/09/23	10.5	0	2
			2004/09/23	10.5	0	2
			2004/09/30	9.8	0	1
			2004/09/30	9.8	0	1
SUMMARY FOR SITE 18-063-0001 POC 1 YEAR 2004			MAXIMUM VIOLATION VALUE		13.7	
VIOLATION DAYS			18			
NON-OVERLAPPING VIOLATIONS			28			

3.31.2.1.3 Area Summary

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY						
VIOLATION DAY COUNT REPORT						
Ozone (44201)						
PDM (007)						
8-HR RUN AVG BEGIN HOUR (W)						
2004						
California						
DATE OF VIOLATION	HIGHEST VIOLATION SITE	COUNTY NAME	NUMBER OF VIOLATION SITES	MAXIMUM VIOLATION VALUE	EXCEPT DATA?	
2004/06/04	06-019-4001	Fresno	1	.085	0	
2004/06/16	06-019-4001	Fresno	1	.090	0	
2004/07/26	06-019-0242	Fresno	2	.085	0	
2004/08/09	06-019-0008	Fresno	4	.092	0	
2004/08/10	06-019-0008	Fresno	4	.092	0	
2004/08/11	06-019-5001	Fresno	5	.103	0	
2004/08/12	06-019-0008	Fresno	1	.086	0	
2004/08/28	06-019-0007	Fresno	1	.085	0	
2004/08/29	06-019-0007	Fresno	2	.087	0	
2004/08/30	06-019-0007	Fresno	4	.091	0	
2004/08/31	06-019-0008	Fresno	3	.092	0	
2004/09/06	06-019-0007	Fresno	2	.090	0	
2004/09/07	06-019-0008	Fresno	4	.097	0	
2004/09/08	06-019-0008	Fresno	3	.092	0	
2004/09/09	06-019-0008	Fresno	2	.087	0	
2004/09/10	06-019-0008	Fresno	1	.087	0	
2004/09/11	06-019-0007	Fresno	1	.085	0	
2004/09/26	06-019-0007	Fresno	2	.093	0	
VIOLATION DAYS		18				

3.31.2.1.4 8-Hour CO Area Summary

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

VIOLATION DAY COUNT REPORT

Jul. 15, 2005

Carbon monoxide (42101)

PWM (007)

8-HR RIN AVG END HOUR (Z)

2004

Indiana

DATE OF VIOLATION	HIGHEST VIOLATION SITE	COUNTY NAME	NUMBER OF VIOLATION SITES	MAXIMUM VIOLATION VALUE	EXCEPT DATA?	MAXIMUM VIOLATION HOUR
2004/01/01	18-063-0001	Hendricks	3	13.7	0	09
2004/01/02	18-063-0003	Hendricks	2	10.1	0	18
2004/01/26	18-063-0002	Hendricks	1	9.6	0	18
2004/01/27	18-063-0002	Hendricks	1	9.5	0	13
2004/01/28	18-063-0002	Hendricks	1	10.0	0	12
2004/02/01	18-063-0003	Hendricks	1	9.5	0	05
2004/03/04	18-063-0002	Hendricks	1	10.0	0	19
2004/03/10	18-063-0002	Hendricks	1	9.8	0	09
2004/03/13	18-063-0002	Hendricks	1	9.5	0	09
2004/03/18	18-063-0002	Hendricks	2	11.9	0	13
2004/03/19	18-063-0002	Hendricks	1	9.5	0	12
2004/03/24	18-063-0002	Hendricks	1	9.5	0	13
2004/07/30	18-063-0003	Hendricks	1	10.4	0	11
2004/08/18	18-063-0003	Hendricks	1	9.8	0	14
2004/08/19	18-063-0003	Hendricks	1	10.0	0	07
2004/08/20	18-063-0003	Hendricks	1	9.8	0	00
2004/08/21	18-063-0003	Hendricks	1	9.6	0	12
2004/08/22	18-063-0003	Hendricks	1	10.0	0	03
2004/08/23	18-063-0003	Hendricks	1	9.5	0	23
2004/08/24	18-063-0003	Hendricks	1	10.5	0	06
2004/08/26	18-063-0003	Hendricks	1	9.9	0	23
2004/08/27	18-063-0003	Hendricks	1	10.0	0	00
2004/09/02	18-063-0001	Hendricks	1	9.8	0	03
2004/09/05	18-063-0001	Hendricks	1	9.9	0	08
2004/09/11	18-063-0001	Hendricks	1	9.6	0	07
2004/09/13	18-063-0001	Hendricks	1	9.6	0	08
2004/09/22	18-063-0001	Hendricks	1	10.6	0	08
2004/09/23	18-063-0001	Hendricks	2	10.5	0	01
2004/09/30	18-063-0001	Hendricks	1	9.8	0	07
VIOLATION DAYS			29			

3.31.2.2 Workfile Format

The workfile is comma-delimited. The columns within the workfile appear in the following order:

Order of Appearance	Column Name
1	State Code
2	State Name
3	County Code
4	County Name
5	AQS Site ID
6	Parameter Code
7	Parameter Description
8	POC
9	Duration Code
10	Duration Description
11	Year
12	MSA Code
13	MSA Name
14	Unit Code
15	Unit Description
16	Date of Violation (YYYYMMDD)
17	Maximum Hour of Violation
18	Maximum Value
19	Exceptional Data Type
20	Number of Primary Violations
21	Number of Secondary Violations
22	Number of Non-Overlapping Violations

3.31.2.3 XML Format

Not applicable for this report.

3.31.3 Report Options

Option Name	Default Value	Description
MERGE PDF FILES	NO	Choose whether or not you would like the cover page merged with the body of the report (pertains only to the formatted report output if generated in PDF format)
SINGLE EVENT PROCESSING	INCLUDE EVENTS	<p>The data is summarized multiple times in cases where exceptional or natural events exist in the dataset. The following options are available</p> <ul style="list-style-type: none">• Include Events• Exclude Events• Exclude Exceptional Events• Exclude Natural Events• Exclude Regionally Concurred Events• Exclude Exceptional Events w/ Regional concurrence• Exclude Natural Events w/ Regional concurrence